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CANADA
DEPARTMENT OF MINES

HON. SIR JAMES A. LOUGHEED, MINISTER; CHARLES CAMSELL, DEPUTY MINISTER

MINES BRANCH
JOHN MCLEISH, ACTING DIRECTOR

THE
PRODUCTION OF COAL AND COKE
IN
CANADA

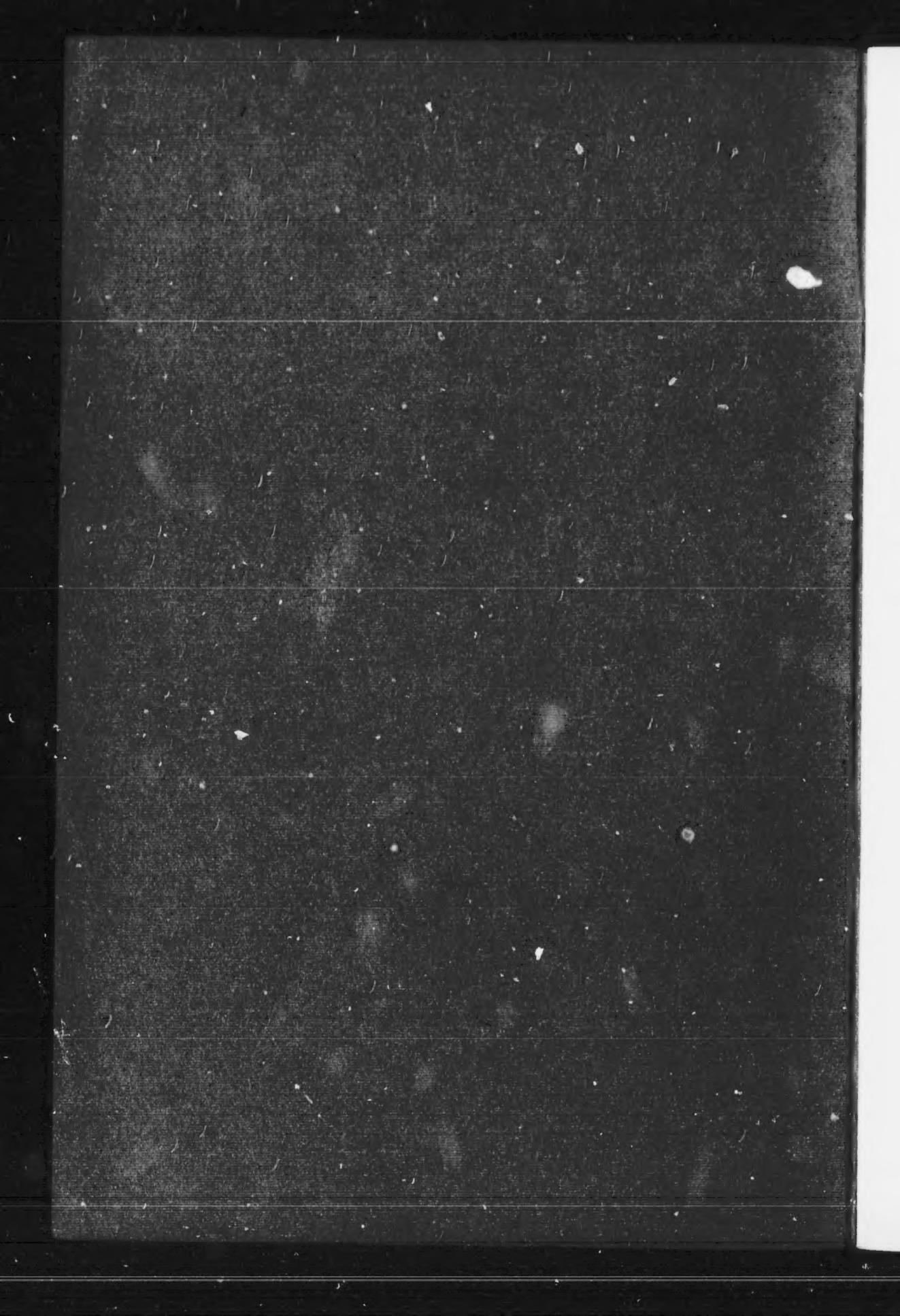
During the Calendar Year

1920



OTTAWA
F. A. ACLAND
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1921

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EXPLANATORY NOTE.

The accompanying Report on "The Production of Coal and Coke in Canada during the Calendar Year 1920" has been compiled by Mr. John Casey, in the Division of Mineral Resources and Statistics.

This Report is supplementary to the Annual Report on the Mineral Production of Canada; but is not included in that report, as it was in 1917 and previous years.

(Signed) **John McLeish,**

Chief, Division of Mineral
Resources and Statistics.

September 7, 1921.

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COAL

The term "production" in the text and tables of this report is used to represent the tonnage of coal actually sold or used, by the producer, as distinguished from the term "output", which is applied to the total coal extracted from the mine, and which includes, in some cases, coal lost or unsaleable or coal carried in stock on hand at the end of the year.

The production of coal during 1920 was 16,631,954 short tons (14,849,958 long tons), valued at \$80,693,723, or an average of \$4.85 per ton, as compared with a production in 1919 of 13,681,218 short tons (12,215,373 long tons), valued at \$54,413,349, or an average of \$3.98 per ton, an increase in production in 1920 of 2,950,736 tons, or 21.6 per cent.

The average number of men employed during 1920 was 29,387, and total wages paid \$49,171,238, as compared with an average of 27,198 men employed in 1919, and \$34,826,363 paid in wages.

From 1917 the values of the production for all provinces have been furnished directly by the operators. Previously, however, complete returns of values were not received from all operators, and the values placed upon the coal production in the provinces of Nova Scotia and British Columbia were partially estimated, or assumed.

In 1886 Canada's consumption of coal was 3,480,111 tons, of which 46 per cent was obtained from Canadian coal mines and 54 per cent imported, chiefly from the United States. The annual consumption per head of population was about three-quarters of a ton.

In 1920 the consumption of coal was 32,731,521 tons, in 1919 it was 28,863,017, and in 1918, 34,771,832 tons. The percentage of the total derived from Canadian mines in 1920 was 43 and the percentage imported 57. During the 33 years that have elapsed since 1886 Canada's coal consumption has increased practically tenfold in total tonnage and over 5 times in rate per head of population. But throughout this period the ratio of domestic to imported coal in the annual consumption has varied within quite narrow limits. The year of maximum proportion of contribution from Canadian sources was in 1903, when Canadian coal formed over 52 per cent of the total; the lowest proportion was in 1917, when only 37.2 per cent of the consumption originated in Canada. Throughout this period, too, exports of Canadian coal have not averaged more than 10 per cent of the quantity imported.

During the past few years the actual coal shortage in central Canada, due to conditions created by the war, and the threats of serious and dire consequences that might readily ensue, were that shortage to become acute, have served to draw public attention very strongly to a situation which the public records have shown to exist for many years. The fuel shortage has not only resulted in the imposition of abnormally high and possibly unjustifiable prices but has actually restricted in many instances industrial activity.

There is no actual shortage of coal resources in either the United States or in Canada, at least in so far as bituminous coal is concerned, so that the problem involved relates primarily to questions of production and distribution.

The Canadian coal-fields are situated in the extreme east and in the western provinces, while the great central provinces of Ontario and Quebec, the chief centres of population, are more easily and, presumably, more economically supplied with coal from the nearer coalfields of Pennsylvania and Ohio. Further, there is no anthracite coal in eastern Canada, which has grown dependent upon the anthracite output of Pennsylvania for that most desirable of the domestic fuels, since anthracite is not only the chief domestic or house fuel in Ontario and Quebec, but is imported even into Nova Scotia coal districts, and has been largely used also in Manitoba and Saskatchewan.

In round numbers, Canada produced during 1920 about 16.7 million tons of coal, of which 2.6 million tons were exported; and imported 13.9 million tons of bituminous coal and 4.9 million tons of anthracite. During the previous year, 1919, we produced, in round numbers, 13.5 million tons of coal, exported 2 million tons, and imported 12.3 million tons of bituminous coal and 5 million tons of anthracite.

Production of Coal by Provinces, 1920

Province	No. of active operators	Average No. of men employed	Wages paid	Production of coal			Per cent of total quantity
				Short tons	Value	Average per ton	
Nova Scotia	28	12,241	\$ 17,282,725	6,429,291	\$ 32,238,129	5.02	38.66
New Brunswick	14	476	584,344	166,048	1,055,286	6.36	1.00
Saskatchewan	63	453	582,964	343,475	819,320	2.38	2.06
Alberta	250	10,054	19,667,521	6,833,500	29,849,608	4.37	41.09
British Columbia	13	6,156	11,049,071	2,858,877	16,726,950	5.85	17.19
Yukon Territory	1	7	4,613	763	4,430	6.00	.....
Total	369	29,387	49,171,238	16,631,954	80,693,723	4.85	100.00

Production of Coal by Provinces, 1919

Province	No. of active operators	Average No. of men employed	Wages paid	Production of coal			Per cent of total quantity
				Short tons	Value	Average per ton	
Nova Scotia	24	10,978	\$ 13,970,119	5,720,373	\$ 22,078,726	3.859	41.81
New Brunswick	12	505	503,268	179,108	794,761	4.422	1.31
Saskatchewan	64	487	467,436	380,169	820,522	2.158	2.78
Alberta	255	9,343	11,414,755	4,964,535	18,294,495	3.685	36.29
British Columbia	14	5,813	8,465,255	2,435,933	12,420,445	5.098	17.80
Yukon Territory	1	12	5,500	1,100	4,400	4.000	0.01
Total	370	27,198	34,826,363	13,681,218	54,413,349	3.977	100.00

Comparison of Production, 1920 with 1919

Province	(+) Increase, or (-) Decrease			
	Quantity		Value	
	Short tons	%	\$	%
Nova Scotia	+ 708,918	12.4	+ 10,159,403	46.0
New Brunswick	- 13,060	7.3	+ 260,525	32.8
Saskatchewan	- 36,694	9.7	- 1,202	0.1
Alberta	+ 1,868,965	37.6	+ 11,555,113	63.2
British Columbia	+ 422,944	17.4	+ 4,306,505	34.7
Yukon Territory	- 337	30.6	+ 30	0.7
Total for Canada	+ 2,950,736	21.6	+ 26,280,374	48.3

The total production in 1920 included 115,679 tons of anthracite, or about 1 per cent of the total; 12,865,851 tons of bituminous, or 77.4 per cent of the total, and 3,610,424 tons of lignite, or 21.7 per cent of the total.

The total production in 1919 included: 111,324 tons of anthracite, or less than 1 per cent of the total; 10,642,902 tons of bituminous, or 77.8 per cent of the total, and 2,926,992 tons of lignite, or 21.4 per cent of the total.

The consumption of coal during the year included approximately 5,036,992 tons of anthracite, 24,084,105 tons of bituminous, and 3,610,424 tons of lignite.

The consumption of coal during 1919 included: approximately 5,063,999 tons of anthraeite, 20,872,026 tons of bituminous, and 2,926,992 tons of lignite.

The total output, production, and distribution of coal mined by provinces during 1920 and 1919 is shown in the following tables:

Production and Distribution of Coal Mined, by Provinces, 1920.

(In short tons)

—	Nova Scotia	New Brunswick	Saskatchewa	Alberta	Yukon	British Columbia	Total
Sold in Canada	<i>b</i> 4,538,330	<i>b</i> 144,365	<i>c</i> 318,987	<i>d</i> 6,180,585	<i>b</i> 615	<i>b</i> 1,555,310	12,738,392
Sold for export to U.S.	32,257	13,212		132,918		876,949	1,055,336
Sold for export to other countries	888,220					8,565	896,785
Total sales	5,458,807	157,577	318,987	6,313,503	615	2,441,024	14,690,513
Used by producers in making coke, steel, brick, etc.	317,674	475	6,692			116,124	440,965
Used by producers for colliery consumption and by workmen	652,810	7,996	17,796	(a) 519,997	148	301,729	1,500,476
Total used	970,484	8,471	24,488	519,997	148	417,853	1,941,441
Production*	6,429,291	166,048	343,475	6,833,500	763	2,858,877	16,631,954
Difference in stocks	+1,637	-788	+79	-43,312	+100	-81,330	-123,614
Losses due to breakage or other causes	64,309	551	2,774	114,747		332,670	315,051
Total output	6,195,237	165,811	346,328	6,904,935	863	3,110,217	17,023,391

* Production is obtained by adding coal sold and coal used. *a* Includes coal used in manufacture of briquettes; *b* Bituminous; *c* Lignite; *d* Anthracite, bituminous and lignite.

Production and Distribution of Coal Mined, by Provinces, 1919

(In short tons)

—	Nova Scotia	New Brunswick	Saskatchewa	Alberta	Yukon	British Columbia	Total
Sold in Canada	<i>b</i> 4,274,874	<i>b</i> 163,275	<i>c</i> 354,319	<i>d</i> 4,455,972	<i>b</i> 1,100	<i>b</i> 1,168,122	10,417,662
Sold for export to U.S.	12,119	8,504	80	121,264		852,704	994,671
Sold for export to other countries	584,614						584,614
Total sales	4,871,607	171,779	354,399	4,577,236	1,100	2,020,826	11,996,947
Used by producers in making coke, steel, brick, etc.	222,269		6,715	3,818		163,116	395,918
Used by producers for colliery consumption and by workmen	626,497	7,329	19,055	(a) 383,481		251,991	1,288,353
Total used	848,766	7,329	25,770	387,299		415,107	1,684,271
Production*	5,720,373	179,108	380,169	4,964,535	1,100	2,435,933	13,681,218
Difference in stocks	+41,574	-879	+45	-51,742		-23,535	-34,537
Losses due to breakage or other causes	42,727	209	3,903	91,475	100	295,560	433,974
Total output	5,804,674	178,438	384,117	5,004,208	1,200	2,707,958	14,080,655

* Production is obtained by adding coal sold and coal used. *a* Includes coal used in manufacture of briquettes; *b* Bituminous; *c* Lignite; *d* Anthracite, bituminous and lignite.

Distribution of Coal Mined during the Years 1915-16-17-18

(In short tons)

	1915	1916	1917	1918
Sold in Canada.....	9,826,712	10,701,530	10,469,468	11,209,184
Sold for export to United States.....	1,330,718	1,451,075	1,301,881	1,334,694
Other countries.....	297,343	284,513	301,060	278,309
Total sales.....	11,454,773	12,437,118	12,072,409	12,842,187
Used by producers for the manufacture of coke.....	701,975	804,814	690,573	699,104
Used by producers for colliery consumption, and by workmen.....	1,110,275	1,241,463	1,283,777	1,436,635
Production.....	13,267,023	14,483,395	14,046,759	14,977,926
Difference in stocks.....	-99,294	-53,527	-7,760	-412
Losses due to washing, breakage, or other causes.....	312,467	385,835	396,362	482,871
Total output.....	13,480,196	14,815,703	14,435,361	15,460,385

Statistics of the annual production of coal from 1881 to date are given in the following table.

The total production of coal from 1785 to 1920 was 313,790,432 tons; of this amount Nova Scotia is credited with 183,968,336 tons, or 58.62 per cent of the total; British Columbia, 65,759,618 tons, or 20.96 per cent; Alberta, 57,905,992 tons, or 18.46 per cent; Saskatchewan, 4,250,062 tons, or 1.36 per cent; New Brunswick, 1,769,496 tons, or 0.56 per cent; and the Yukon Territory, 136,928 tons, or 0.04 per cent.

Annual Production of Coal

Year	Short tons	Value	Average per ton	Year	Short tons	Value	Average per ton
1785-1880.....	16,426,253	28,190,518	1.72	1901.....	6,486,325	12,699,243	1.96
1881.....	1,537,106	2,688,621	1.75	1902.....	7,466,681	15,210,877	2.04
1882.....	1,848,148	3,248,446	1.76	1903.....	7,960,364	15,942,833	2.00
1883.....	1,818,684	3,109,635	1.71	1904.....	8,254,595	16,592,231	2.01
1884.....	1,984,959	3,593,831	1.81	1905.....	8,667,948	17,520,263	2.02
1885.....	1,920,977	3,417,807	1.78	1906.....	9,762,601	19,732,019	2.02
1886.....	2,116,653	3,739,840	1.77	1907.....	10,511,426	24,381,842	2.32
1887.....	2,429,330	4,388,206	1.81	1908.....	10,886,311	25,194,573	2.31
1888.....	2,692,552	4,674,140	1.80	1909.....	10,501,475	24,781,236	2.36
1889.....	2,658,303	4,894,287	1.84	1910.....	12,909,152	30,909,779	2.39
1890.....	3,084,682	5,676,247	1.84	1911.....	11,323,388	26,467,646	2.34
1891.....	3,577,749	7,019,425	1.96	1912.....	14,512,829	36,019,044	2.48
1892.....	3,287,745	6,263,757	1.94	1913.....	15,012,178	37,334,940	2.49
1893.....	3,783,499	7,359,080	1.95	1914.....	13,637,529	33,471,801	2.45
1894.....	3,847,070	7,429,468	1.93	1915.....	13,267,023	32,111,182	2.42
1895.....	3,478,344	6,739,153	1.94	1916.....	14,483,395	38,817,481	2.68
1896.....	3,745,716	7,226,462	1.93	1917.....	14,046,759	43,199,831	3.08
1897.....	3,786,107	7,303,597	1.93	1918.....	14,977,926	55,192,896	3.68
1898.....	4,173,108	8,224,288	1.97	1919.....	13,681,218	54,413,349	3.97
1899.....	4,925,051	10,283,497	2.09	1920.....	16,631,954	80,693,723	4.85
1900.....	5,777,319	13,742,178	2.38	Grand total...	313,790,432	789,999,272	2.52

Exports of Canadian Coal

Statistics of the exports of coal according to the Trade records are given in the following tables. The exports of Canadian coal in 1920 were 2,558,174 tons, valued at \$18,014,899, or an average of \$7.04 per ton, as compared with exports in 1919 of 2,070,050 tons, valued at \$12,438,885, or an average of \$6.01 per ton. Besides Canadian coal exported there is also a small export of coal not the produce of Canada.

Annual Exports of Coal

(In short tons)

Calendar year	Produce of Canada	Not the produce of Canada	Calendar year	Produce of Canada	Not the produce of Canada
1908	1,729,833	102,071	1915	1,766,543	59,690
1909	1,588,099	181,098	1916	2,135,350	62,783
1910	2,377,049	159,859	1917	1,733,156	47,328
1911	1,500,639	133,943	1918	1,817,195	67,486
1912	2,127,133	46,706	1919	2,070,050	56,988
1913	1,562,020	66,566	1920	2,558,174	84,801
1914	1,423,126	83,137			

Imports of Coal

The total imports of coal of all classes in 1920 "entered for consumption" as per the published Trade reports, were 18,742,542 tons, valued at \$98,033,598, as compared with total imports in 1919 of 17,308,937 tons, valued at \$61,160,799.

Imports of coal into Canada are sub-divided into four classes, as follows:—anthracite, egg, grate, stove, and nut; anthracite, rice, barley and buckwheat; bituminous, round and run-of-mine; and bituminous slack, such as will pass through a three-quarter-inch screen.

The imports of anthracite in 1920 included: 4,401,516 tons of egg, grate, stove and nut, valued at \$35,317,815, or an average of \$8.02 per ton, and 479,797 tons of rice, barley and buckwheat, valued at \$1,455,536, or an average of \$3.03 per ton, as compared with imports in 1919 of 4,758,419 tons of egg, grate, stove and nut, valued at \$30,948,590, or an average of \$6.50 per ton, and 194,256 tons of rice, barley and buckwheat, valued at \$647,104, or an average of \$3.33 per ton. The total imports of bituminous coal of all classes in 1920 were: 13,861,229 tons, valued at \$61,260,247, as against imports in 1919 of 12,356,162 tons, valued at \$29,565,105. The increase in bituminous imports in 1920 as compared with 1919 was thus 1,505,067 tons, or 12.2 per cent.

The bituminous imports in 1920 included: bituminous round, and run-of-mine, 11,548,475 tons, valued at \$50,808,626, or an average of \$4.40 per ton, and bituminous slack, 2,312,754 tons, valued at \$10,451,621, or an average of \$4.52 per ton. The value of the imports during 1919 of bituminous round and run-of-mine coal averaged \$2.44 per ton, and of bituminous slack \$2.16 per ton.

The record of the exports of bituminous coal to Canada, as published in the Reports of Trade and Navigation at Washington, differs in some years considerably from the Canadian record, in partial explanation of which it should be noted that the Canadian record represents coal "entered for home consumption." This entry may be deferred several months from the actual time of import, thus causing a difference in the monthly and yearly record.

Furthermore, it is understood that the United States record includes a certain amount of coal used for bunkering lake steamers which would not be included as an import into Canada. The United States record shows exports of bituminous coal to Canada, during the twelve months ending December, 1920, of 16,220,880 short tons, as against 11,950,277 tons in 1919, 18,134,328 tons in 1918, 18,118,879 tons in 1917, 13,260,181 tons in 1916, 9,356,889 tons in 1915, 10,271,409 tons in 1914, and 15,115,733 tons in 1913.

Imports of Coal 'Entered for Consumption,' 1919 and 1920

	1919			1920		
	Tons	Value	Ave. per ton	Tons	Value	Ave. per ton
	\$	\$/cts.		\$	\$/cts.	
<i>Imports of Anthracite</i>						
Egg, grate, stove and nut	4,758,419	30,948,590	6.30	4,401,516	35,317,815	8.02
Rice, barley and buckwheat	194,256	647,104	3.33	479,797	1,455,536	3.03
	4,952,675	31,595,694	6.38	4,881,313	36,773,351	7.53
<i>Imports of Bituminous</i>						
Round and run-of-mine	10,127,965	24,750,717	2.44	11,548,475	50,808,626	4.40
Slack	2,228,197	4,814,388	2.16	2,312,754	10,451,621	4.52
	12,356,162	29,565,105	2.39	13,861,229	61,260,247	4.42
Total Imports	17,308,837	61,160,799		18,742,542	98,033,598	

Annual Imports of Coal 'Entered for Consumption'

Calendar year	Bituminous round and run of the mine (a)	Anthracite coal and anthracite dust (b)		Bituminous slack such as will pass through a $\frac{1}{4}$ screen (c)		
	Short tons	Value	Short tons	Value	Short tons	Value
	\$		\$		\$	
1907	6,370,152	13,232,445	3,141,873	14,506,129	1,139,256	1,121,949
1908	6,025,574	12,516,748	3,160,110	14,478,536	1,111,811	1,355,677
1909	5,625,063	11,455,818	3,017,844	13,906,152	1,230,017	1,469,889
1910	5,966,466	11,919,341	3,266,235	14,735,062	1,365,281	1,795,598
1911	8,905,815	18,407,603	4,020,577	18,794,102	1,632,500	2,090,796
1912	8,491,840	16,846,727	4,184,017	20,080,388	1,919,953	2,550,922
1913	10,743,473	21,756,058	4,642,057	22,034,833	2,816,423	4,157,622
1914	7,776,415	14,954,321	4,435,010	21,241,924	2,509,632	3,605,253
1915	6,106,794	7,564,369	4,072,192	18,753,980	2,286,916	2,027,256
1916	9,504,552	12,368,679	4,570,815	22,216,363	3,505,236	3,704,624
1917	12,407,486	33,712,894	5,320,198	28,109,586	3,129,776	8,739,877
1918	13,656,360	37,291,057	4,785,160	26,007,888	3,237,067	8,351,639
1919	10,127,965	24,750,717	4,952,675	31,595,694	2,228,197	4,814,388
1920	11,348,475	50,808,626	4,881,313	36,773,351	2,312,754	10,451,621

(a) Duty, 53 cents per ton. (b) Coal, anthracite and anthracite coal dust, duty free. (c) Duty, 14 cents per ton.

The following tables show the monthly imports of bituminous and anthracite coal since 1916, as compiled from "Trade of Canada" reports.

The United States record of monthly exports to Canada is also included for comparison. These are compiled from the "Foreign Commerce of the United States" reports.

Monthly Imports of Bituminous Coal into Canada,* Entered for Consumption

In short tons.

	1915	1916	1917	1918	1919	1920
January.....	547,772	1,124,918	1,031,719	1,134,493	1,458,240	790,424
February.....	653,016	942,811	760,545	1,460,391	1,064,710	671,212
March.....	547,756	918,206	1,114,958	1,175,076	922,608	1,180,670
April.....	417,133	727,467	1,331,449	986,052	562,853	753,537
May.....	481,908	894,505	893,055	1,541,537	960,491	885,125
June.....	661,569	1,239,882	1,260,652	1,442,412	733,550	924,136
July.....	752,229	1,096,718	1,581,361	1,670,806	1,283,902	1,103,819
August.....	846,162	1,188,822	1,890,923	1,670,397	1,291,041	1,565,171
September.....	680,151	1,287,554	1,567,773	1,604,802	1,203,977	1,265,694
October.....	900,450	1,314,286	1,582,797	1,545,320	1,355,577	1,686,495
November.....	967,791	1,156,239	1,273,498	1,439,545	892,248	1,403,349
December.....	937,773	1,118,380	1,248,532	1,222,606	626,965	1,031,77
Total.....	8,393,710	13,009,788	15,537,262	16,893,427	12,356,162	13,681,229

Compiled from the Monthly Reports on Trade of Canada, Ottawa.

Monthly Imports of Anthracite Coal into Canada,* Entered for Consumption

In short tons.

	1915	1916	1917	1918	1919	1920
January.....	270,396	295,578	300,836	279,688	399,676	335,908
February.....	213,797	340,347	277,179	246,960	347,866	296,736
March.....	175,813	381,032	436,567	424,030	170,754	439,334
April.....	361,195	194,402	318,782	362,291	209,958	260,122
May.....	477,522	372,264	347,390	465,561	461,701	329,684
June.....	415,344	513,528	551,105	401,450	431,874	473,829
July.....	341,380	513,858	559,994	382,267	534,488	561,567
August.....	346,689	429,069	665,071	461,651	592,550	591,932
September.....	338,272	433,203	533,203	479,284	563,306	379,107
October.....	415,929	385,953	570,771	511,214	443,638	421,826
November.....	370,384	383,103	413,200	364,605	379,430	419,403
December.....	345,471	327,848	346,100	406,219	417,434	371,865
Total.....	4,072,192	4,570,815	5,320,198	4,785,160	4,952,675	4,881,313

Compiled from the Monthly Reports on Trade of Canada, Ottawa.

Monthly Exports of Bituminous Coal from the United States to Canada*

In short tons.

	1916	1917	1918	1919	1920	1921
January.....	600,616	654,350	510,022	861,023	514,072	1,318,821
February.....	605,684	646,008	647,855	500,000	606,222	704,323
March.....	611,640	884,498	951,196	395,229	716,391	662,544
April.....	740,865	1,022,171	1,273,972	562,173	940,460	789,137
May.....	1,467,229	1,569,297	1,978,799	1,218,589	802,427	1,259,156
June.....	1,476,453	2,017,989	2,019,816	1,602,430	1,337,019	...
July.....	1,457,326	1,555,972	2,098,600	1,498,681	1,886,889	...
August.....	1,798,697	2,715,628	2,194,099	1,498,208	2,094,047	...
September.....	1,519,550	1,739,580	2,038,673	1,581,406	1,965,514	...
October.....	1,196,122	2,416,800	1,859,456	1,622,438	2,234,212	...
November.....	1,023,924	1,504,946	1,550,245	377,038	1,034,498	...
December.....	852,076	1,391,649	1,011,595	233,062	1,492,129	...
Total.....	13,260,182	18,118,879	18,134,328	11,950,277	16,220,880	...

Compiled from the Monthly Summary of Foreign Commerce of the United States, Washington, D.C.

**Monthly Exports of Anthracite Coal from the United States
to Canada***

In short tons

	1916	1917	1918 (a)	1919 (a)	1920 (a)	1921
January.....	288,521	327,838	270,239	412,909	342,797	324,061
February.....	324,354	285,135	254,597	241,940	305,052	326,984
March.....	337,814	408,337	445,041	131,942	470,044	344,893
April.....	237,291	656,731	381,764	319,413	389,151	412,758
May.....	495,609	480,633	476,123	446,652	310,461	486,425
June.....	567,704	677,350	424,203	531,238	573,385	
July.....	432,375	437,493	443,062	546,171	738,186	
August.....	430,379	760,253	457,177	565,845	622,302	
September.....	391,873	501,899	495,840	548,557	364,262	
October.....	374,563	335,715	510,753	485,791	467,718	
November.....	349,053	329,259	482,013	359,205	373,257	
December.....	326,776	606,663	327,056	386,850	417,134	
Total.....	4,556,374	6,007,306	4,967,808	4,976,598	5,403,749	

*Compiled from the Monthly Summary of Foreign Commerce of the United States, Washington, D.C.
(a) Total exports. Exports to Canada not separately stated, but will exceed 95 per cent of total exports.

Consumption of Coal

The total consumption of coal into Canada estimated on the basis of production, imports and exports was in 1920, 32,731,521 tons, which included 14,073,780 tons of Canadian coal and 18,657,741 tons of imported coal.

Statistics of the annual consumption are given in the following tables:

Consumption of Coal, 1916-17-18-19-20

(In short tons)

	1916	1917	1918	1919	1920
Production.....	14,433,395	14,046,759	14,977,926	13,681,218	16,631,954
Exports of Canada.....	2,135,359	1,733,156	1,817,195	2,070,050	2,558,174
Home consumption of Canadian coal.....	12,348,036	12,313,603	13,160,731	11,611,168	14,073,780
Imports.....	17,580,603	20,857,460	21,678,587	17,308,837	18,742,542
Exports not produce of Canada.....	62,783	47,328	67,486	56,988	84,801
Canadian consumption of imported coal.....	17,517,820	20,810,132	21,611,101	17,251,849	18,657,741
Total consumption of coal in Canada....	29,865,856	33,123,735	34,771,832	28,863,017	32,731,521

Annual Consumption of Coal

In short tons

Calendar Year	Canadian		Imported		Total	Per capita
	Short tons	%	Short tons	%		
1856	1,595,950	45.9	1,884,161	54.1	3,480,111	0.758
1887	1,848,365	45.7	2,192,260	54.3	4,040,625	0.871
1888	2,013,925	37.8	3,314,353	62.2	5,328,278	1.137
1889	1,902,968	44.4	2,490,931	55.6	4,483,919	0.946
1890	2,360,196	47.8	2,581,187	52.2	4,941,383	1.031
1891	2,606,490	46.7	2,980,222	53.3	5,586,712	1.153
1892	2,464,012	44.4	3,082,429	55.6	5,546,441	1.133
1893	2,823,187	47.6	3,110,462	52.4	5,933,649	1.198
1894	2,743,376	48.5	2,917,818	51.5	5,661,194	1.130
1895	2,467,109	45.7	2,933,752	54.3	5,400,861	1.066
1896	2,639,055	45.1	3,206,458	54.9	5,845,511	1.140
1897	2,799,977	47.3	3,124,485	52.7	5,924,462	1.143
1898	3,023,079	48.0	3,274,981	52.0	6,298,060	1.200
1899	3,631,882	47.0	4,092,361	53.0	7,724,243	1.454
1900	3,989,542	47.8	4,361,563	52.2	8,351,105	1.561
1901	4,912,664	50.5	4,810,213	49.5	9,722,877	1.810
1902	5,376,413	51.0	5,185,938	49.0	10,542,351	1.927
1903	6,005,735	52.2	5,491,870	47.8	11,507,605	2.055
1904	6,697,183	49.2	6,909,651	50.8	13,606,834	2.346
1905	7,032,661	48.9	7,343,880	51.1	14,376,541	2.362
1906	9,727,560	51.7	7,398,906	48.3	15,326,466	2.425
1907	8,617,352	45.0	10,549,503	55.0	19,166,855	2.947
1908	9,156,478	47.3	10,195,424	52.7	19,351,902	2.820
1909	8,913,376	47.9	9,711,826	52.1	18,625,202	2.682
1910	10,532,103	50.2	10,438,123	49.8	20,970,226	2.960
1911	9,822,749	40.5	14,424,949	59.5	24,247,698	3.384
1912	12,385,666	46.0	14,549,104	54.0	26,934,800	3.598
1913	13,450,158	42.6	18,132,387	57.4	31,582,545	4.071
1914	12,214,403	45.5	14,637,920	54.5	26,832,323	3.325
1915	11,500,480	48.1	12,406,212	51.9	23,906,692	3.015
1916	12,348,036	41.3	17,517,820	58.7	29,865,856	3.600
1917	12,313,603	37.2	20,810,132	62.8	33,123,735	3.962
1918	13,160,731	37.8	21,611,101	62.2	34,771,832	4.047
1919	11,611,168	40.2	17,251,849	59.8	28,863,017	...
1920	14,073,780	43.0	18,657,741	57.0	32,731,521	...

In connexion with the records of consumption it may be of interest to record the very large percentage of Canadian coal consumption used by railway locomotives. During the calendar year 1920, the tonnage of coal used by locomotives amounted to 10,332,915 tons.

The quantity of coal consumed by railway locomotives in recent years, as compiled from "Railway Statistics," published by the Department of Railways and Canals, is as follows:

Annual Consumption of Coal by Railway Locomotives

In short tons

		Anthracite	Bituminous	Total
1911 (Year ending June 30)		6,444	6,709,903	6,776,347
1912 "	"	5,374	7,732,938	7,738,312
1913 "	"	4,862	9,040,963	9,045,625
1914 "	"	5,271	8,268,186	8,273,457
1915 "	"	3,691	6,673,845	6,677,536
1916 "	"	4,899	8,672,455	8,677,354
1917 "	"	4,900	9,783,524	9,788,424
1918 "	"	3,283	9,836,623	9,839,906
1919 "	"	4,430	9,136,593	9,141,023
1919 (Calendar year)		3,143	9,329,161	9,332,334
1920 "	"	4,270	10,328,645	10,332,915

Nova Scotia

The production of coal in Nova Scotia in 1920 was 6,429,291 tons, as compared with a production in 1919 of 5,720,373 tons, showing an increase of 708,918 tons, or 12.4 per cent.

The total sales of coal during 1920 were 5,458,807 tons, of which 4,538,330 tons were sold for consumption in Canada, 32,257 tons for export to the United States, and 888,220 tons for export to Newfoundland and other countries.

The total quantity used by producers under colliery boilers, in coke ovens, and in steel plants was 970,484 tons, including 317,674 tons used in making coke and for other commercial purposes, and 652,810 tons used in the operation of collieries, or by workmen.

A considerable tonnage of coal reported as sold for consumption in Canada is also used in the manufacture of coke, the total coal charged to coke ovens in the province during the year being 691,374 tons.

The Dominion Coal Company has for many years been the principal operator, the total production of this firm's collieries at Cape Breton and at Springhill being 4,090,171 tons, or 63.6 per cent of the province's production, and equivalent to 24.6 per cent of the total Canadian production. The Nova Scotia Steel and Coal Company produced 677,389 tons, the Acadia Coal Company 582,739 tons, the Inverness Railway and Coal Company 221,108 tons, the Maritime Coal, Railway and Power Company 181,919 tons, the International Coal Mining Company 180,734 tons, and the Bras d'Or Coal Company, Limited, 125,967 tons.

Nova Scotia was the first province in Canada in which coal was mined and up to date has produced more coal than all the other provinces combined. The annual production reached a maximum in 1913 with a total of 7,980,073 tons. During the past few years, however, the production fell off. The 1920 production showed a substantial increase. As the war proceeded the loss of experienced miners through enlistment became heavy. The output was reduced and increasing demands for coal for local consumption and for bunkering overseas shipping soon absorbed the available coal that formerly went to the Montreal market.

For a number of years Nova Scotia mines, chiefly those of Cape Breton, had been shipping from 2,000,000 to 2,500,000 tons of coal to Montreal, and other Quebec markets, via the St. Lawrence. During the twelve months ending September, 1920, 269,585 tons of Nova Scotia coal were marketed in Quebec province, as against 386,022 tons in 1919, 150,582 tons in 1918, 339,374 tons in 1917, 1,114,337 tons in 1916, and 2,048,222 tons in 1915.

The quantity of coal marketed within the province increased from 2,467,000 tons in 1914 to 3,226,000 tons in 1917, but has fallen again to 2,739,000 tons in 1920.

The present distribution also shows a larger quantity of coal marketed in New Brunswick and in Newfoundland than before the war. The exports to the United States, which reached 596,000 tons in 1915, have fallen to 31,000 tons in 1920, whilst during the latter year 591,000 tons were shipped to European markets and 69,000 tons to Africa.

Coal Production by Companies, in Nova Scotia, 1920

In short tons

	Total	Sales	Total coke	Coke consump. ton	Prod. ton Wetback	Prod. ton dry	Stock		Total ton
							Prod. ton dry	Prod. ton wet	
<i>Interest Company</i>									
Lowerness Ry. and Coal Co.	183,979		29,172	7,937	221,108	19,431	8,867	8,867	295,344
Port Hood Collieries Ltd.	56,523	1,940	1,272	61,724	292	69	15	15	61,724
St. Rose Mine (G. W. Evans)	332	79		79					164
Chinamoy Corner Mine (S. J. Pontefract)	1,016	45		1,001					1,016
Anglo Coal Co., Ltd.	8,447		340	106	9,093	2,305	2,443	88	9,289
	249,908		33,785	9,295	291,078	21,848	6,079	101	277,412
<i>Capital District</i>									
Indian Cove Coal Co., Ltd.	49,844		1,357	4,51	71,682	31	51	51	71,13
Dominion Coal Co., Ltd.	31,495	31,592	308,884	7,015	610,611	50,908	6,213	29,011	611,912
Nova Scotia Steel and Coal Co., Ltd.	372,234	250,458	28,881	25,804	617,389	6,617	4,420	3,714	616,966
Bank of Coal Co., Ltd.	124,903		887	1,080	125,906	14	397	126,364	
Pawatha Coal Co. and Coastal Coal Co.	8,740		1,175	14	9,929	1,990		1,925	
	1,751,741	281,950	441,164	100,122	1,471,988	76,945	71,680	64,142	1,536,845
<i>Portion County</i>									
Acadia Coal Co., Ltd.	516,161		14,369	22,119	582,749	179	2,948		584,958
Millford Mining Co. and Lantauk Eng. Co.	51,024	5,411	3,039	56,644	56,644				56,644
Greenwood Coal Co., Ltd.	55,713	4,765	1,038	61,550	61		220	61,411	
Intercolonial Coal Mining Co., Ltd.	140,420	2,424	21,974	7,020	180,734	6,040	4,495		180,629
	502,268	2,321	46,578	30,486	581,573	812	1,113		581,644
<i>Yarmouth County</i>									
Valley Coal Co.	1,173								1,173
Maritime Coal, Ry. and Power Co., Ltd.	144,262	29,191	4,376	4,090	181,914				181,914
Twin Seas Coal Co., Ltd.	4,378		47	69	5,791				5,791
Dominion Coal Co., Ltd., (Spryfield)	401,890	4,242	60,217	11,831	480,150	6,144	6,143	6,143	480,221
Minidie Coal Co., Ltd.	45,211		3,113	1,478	50,102				50,102
The Emerson Coal Co., Ltd.	14,639		890	6,50	16,199				16,199
The Sterling Coal Co.	21,309		307	114	23,120		11		24,141
Fundy Coal Co., Ltd.	4,937			345	1,482				1,482
Lowick Hubco and Riverside Mines	13,161		1,175	1,130	14,056	4,400			14,456
Marsh Mine Coal Co., Ltd.	4,190		1,50	140					4,400
	634,860	43,403	70,325	21,364	779,552	6,134	6,554	64	780,205
	5,438,807	317,674	491,632	161,178	6,429,291	85,759	87,400	64,309	6,495,277
<i>Total</i>									
Includes also coal used by producers for steam, packing and other purposes.									
Losses are not furnished by all producers.									

Coal Production by Companies, in Nova Scotia, 1919

In short tons

	Total sale	Used for coking	Colliery consumption	Workmen	Produced			Loses
					Jan. 1	Dec. 31	Loss	
<i>Porters' County</i>								
Bay of Fundy Ry. and Coal Co.	122,104	28,818	7,349	1,581	5,714	4,748	(60)	154,495
Bart. Head Collieries, Ltd.	51,642	2,191	8,201	146	1,346	1,346	0	54,949
St. Rose Mine Co., W. I. Vans	204	95	92	396	58	58	0	342
Chamney Corner Mine, S. J. Powers	796	—	—	796	36	36	0	796
Anglo. Coal Co., Ltd.	22,919	403	461	23,783	0	0	0	22,919
	177,466	31,511	8,722	217	8,999	4,639	2,564	245,799
<i>Colpitts, Borden, and Co., Ltd.</i>								
Indiano Coal Co., Ltd.	18,145	872	3,650	1	22	977	—	20,777
Dominion Coal Co., Ltd.	3,018,980	26,179	291,924	63,336	3,400	3,290	11,864	30,508
Nova Scotia Steel and Coal Co., Ltd.	341,196	193,300	372,774	23,047	560	523	945	19,181
Washburn Coal Co., Ltd.	45,352	597	597	703	47	47	6,637	20,506
	3,423,483	219,485	326,467	90,746	4,060	684	1,678	56,045
<i>Pictou County</i>								
Acadia Coal Co., Ltd.	413,800	24,270	18,199	4,662	279	243	179	414,465
20,642	2,772	2,772	23,414	—	—	—	—	21,414
42,737	2,985	2,985	46,516	—	—	—	—	48,496
174,686	2,784	22,697	7,483	207	634	584	600	217,694
18,762	—	1,663	203	20	628	—	—	20,628
	670,627	2,784	54,387	26,679	7,344	4,777	911	842
<i>Yarmouth County</i>								
Central Coal Co.	1,877	210	—	2,087	141	141	—	2,104
Maritime Coal, Ry. and Power Co., Ltd.	176,153	4,535	4,606	1,651	4,266	4,266	1	174
1 Twin Seam Coal Co., Ltd.	6,031	240	200	6,471	—	—	—	6,471
2 Dominion Coal Co., Ltd., Spryfield	201,990	63	212	12,280	437	458	2	440
36,914	—	1,600	—	38,714	6,134	6,134	10	440
8,025	—	300	120	8,445	—	—	0	8,445
6,844	—	242	229	7,269	84	84	—	7,269
651	—	—	—	651	—	—	—	651
405	—	—	—	405	—	—	—	405
493	—	212	15	720	—	—	—	720
	589,531	70,541	17,444	187,316	7,116	6,782	1	199
	4,871,407	222,269	482,906	143,591	730,373	25,944	67,518	12,727
								5,804,674
Production is obtained by adding sales and coal used. ^a complete record.								
Includes also coal used by producers for steel making and other purposes.								
Loses are not furnished by all producers.								

Total

Includes also coal used by all producers for steel making and other purposes.

Loses are not furnished by all producers.

Output, Sales, Colliery Consumption, and Production of Coal in Nova Scotia

Calendar Year	Output	Sold or used	Colliery consumption	Production	Price per ton of 2,240 lbs.		Value of products
					Tons of 2,000 pounds	\$	
1785 to 1873							
1874	977,446	849,022	133,932	972,954	1,75	1,75	12,583,860
1875	874,905	791,610	139,003	930,613	1,75	1,75	1,520,240
1876	794,804	740,312	127,443	847,755	1,75	1,75	1,454,084
1877	815,396	769,313	110,702	880,215	1,75	1,75	1,308,991
1878	803,075	776,732	99,202	875,994	1,75	1,75	1,375,339
1879	882,863	771,259	94,961	866,220	1,75	1,75	1,364,741
1880	1,156,035	1,069,218	103,451	1,177,669	1,75	1,75	1,733,469
1881	1,259,183	1,159,216	120,834	1,280,050	1,75	1,75	1,840,105
1882	1,529,708	1,400,200	124,747	1,524,947	1,75	1,75	2,382,730
1883	1,503,259	1,453,226	125,383	1,578,609	1,75	1,75	2,466,576
1884	1,556,011	1,413,048	130,781	1,544,829	1,75	1,75	2,412,233
1885	1,514,470	1,405,054	142,939	1,547,990	1,75	1,75	2,418,735
1886	1,682,924	1,538,566	159,512	1,694,018	1,75	1,75	2,658,152
1887	1,871,330	1,702,046	156,550	1,858,596	1,75	1,75	2,904,057
1888	1,989,203	1,765,895	176,336	1,942,241	1,75	1,75	3,034,735
1889	1,967,032	1,741,720	177,107	1,918,827	1,75	1,75	2,998,167
1890	2,222,081	2,000,444	180,580	2,181,043	1,75	1,75	3,407,864
1891	2,290,158	2,071,938	195,981	2,267,919	1,75	1,75	3,543,624
1892	2,175,943	1,963,286	196,103	2,159,389	1,75	1,75	3,374,046
1893	2,189,807	2,214,548	230,076	2,441,924	1,75	1,75	3,820,194
1894	2,529,707	2,308,241	219,754	2,527,982	1,75	1,75	3,949,970
1895	2,239,727	2,008,270	216,875	2,225,145	1,75	1,75	3,476,790
1896	2,537,765	2,202,147	216,132	2,508,579	1,75	1,75	3,919,655
1897	2,020,835	2,290,032	203,522	2,494,534	1,75	1,75	3,896,179
1898	2,584,175	2,375,664	187,519	2,563,180	1,75	1,75	4,004,970
1899	2,209,206	2,950,067	198,755	3,148,822	2,00	2,00	5,022,898
1900	694,046	3,358,585	264,051	3,624,546	2,50	2,50	8,088,250
1901	4,279,557	3,820,462	337,666	4,158,068	1,75	1,75	6,496,982
1902	5,292,538	4,736,614	424,702	5,161,316	2,00	2,00	9,216,636
1903	5,841,420	5,113,607	539,731	5,653,338	2,00	2,00	10,095,246
1904	5,747,823	5,097,949	498,292	5,500,241	2,00	2,00	9,993,288
1905	5,821,622	5,167,476	479,107	5,646,583	2,00	2,00	10,083,184
1906	6,546,191	5,701,307	516,198	6,220,505	2,00	2,00	11,108,044
1907	6,468,503	5,864,406	489,727	6,354,133	2,15	2,15	12,764,999
1908	6,805,489	5,851,761	645,690	6,652,539	2,25	2,25	13,364,476
1909	5,718,871	5,060,912	585,177	5,652,089	2,25	2,25	11,354,643
1910	6,515,162	5,723,681	607,461	6,441,142	2,25	2,25	12,919,705
1911	7,125,551	6,358,080	646,340	7,004,420	2,25	2,25	14,071,379
1912	8,834,724	7,052,573	731,315	7,783,888	2,50	2,50	17,374,750
1913	8,135,104	7,257,006	723,067	7,980,073	2,50	2,50	17,812,663
1914	7,448,042	6,637,110	733,814	7,370,924	2,50	2,50	16,452,955
1915	7,514,739	6,848,773	644,597	7,403,370	2,50	2,50	16,059,308
1916	6,911,995	6,236,439	675,701	6,912,140	3,00	3,00	18,514,667
1917	6,315,335	5,599,489	727,602	6,327,094	3,44	3,44	19,410,737
1918	5,836,370	5,046,061	801,871	5,818,562	4,06	4,06	21,095,470
1919	5,804,674	5,093,876	626,497	5,720,373	4,32	4,32	22,078,726
1920	6,495,237	5,776,481	652,810	6,429,291	5,62	5,62	32,238,129
				183,968,336			396,285,718

Coal Trade by Counties in Nova Scotia, Calendar Years since 1906

In short tons

Calendar Year	Cumberland			Pictou			Cape Breton			Other Counties			Total
	Raised	Sold*	Raised	Raised	Sold*	Raised	Raised	Sold*	Raised	Sold*	Raised	Raised	
1906	659,734	566,108	769,496	657,310	4,504,407	4,221,293	212,554	259,336	6,546,191	5,704,417			
1907	631,017	417,288	540,648	510,502	3,098,147	3,116,180	395,310	34,266	5,105,104	5,104,104			
1908	682,157	530,648	519,802	678,025	4,840,652	4,267,346	652,877	6,905,459	6,905,459	5,376,173			
1909	401,910	401,910	748,800	909,744	4,981,483	3,724,196	198,750	340,000	7,118,871	7,082,912			
1910	590,363	288,706	714,846	694,652	5,025,800	4,571,347	414,128	374,950	5,823,658	5,823,658			
1911	528,206	410,125	811,956	611,890	5,405,355	4,917,902	247,944	312,201	6,125,551	6,358,480			
1912	716,914	705,138	749,658	694,659	6,439,296	5,540,765	312,836	284,740	7,831,724	7,666,652			
1913	673,744	561,845	817,177	694,659	6,113,276	5,709,995	395,527	329,108	7,301,104	7,271,104			
1914	702,496	672,765	1,081,576	971,063	5,707,566	5,296,733	236,419	236,419	7,448,042	6,612,107			
1915	710,794	620,047	781,236	748,145	5,920,670	4,860,292	275,449	210,540	7,411,757	7,381,757			
1916	685,517	562,014	612,411	725,392	5,417,750	5,181,786	254,750	254,750	6,761,414	6,731,414			
1917	711,164	601,693	615,523	615,523	4,680,650	4,176,581	257,520	181,532	6,453,635	5,569,488			
1918	792,139	604,813	584,721	506,945	4,294,842	3,716,020	234,678	189,792	5,800,670	5,666,670			
1919	688,981	599,471	734,408	627,411	4,144,495	3,643,498	216,700	177,698	5,944,674	5,684,674			
1920	779,535	622,087	881,044	804,529	4,533,845	4,403,691	250,274	250,274	5,776,481	5,776,481			

*Soldless include coal used for making coke and coke

Distribution of Coal Sold by Nova Scotia Producers

Markets	Fiscal year ending September 30						1919
	1915	1916	1917	1918	1919	1920	
Short tons	Per cent	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent
Nova Scotia							
For market by land	1,976,194	30.65	2,677,806	40.21	2,707,719	47.01	2,579,188
Sea	392,340	6.08	491,791	7.40	518,743	9.01	510,840
Total Nova Scotia	2,368,536	36.73	3,165,457	47.61	3,226,462	56.02	3,090,034
New Brunswick	675,640	10.48	865,258	13.02	994,741	17.37	988,521
Prince Edward Island	95,151	1.45	142,506	1.40	115,348	2.01	87,441
Quebec	2,048,222	31.76	1,114,347	16.77	149,171	3.89	150,581
Newfoundland	233,735	3.63	281,259	4.25	265,914	4.60	245,487
United States	596,646	9.25	569,773	7.67	383,142	6.65	301,370
St. Pierre	11,729	0.18	6,485	0.10	6,768	0.11	6,043
Bunker coal	183,273	3.94	644,601	9.10	428,939	7.45	289,541
For time chartered boats	18,948	0.39					177,642
Loss at sea	9,427	0.15	392	0.08	145	0.01	149
Other countries	8,749	0.14	5,338	0.08			2,148
Total	6,448,856	100.00	6,645,756	100.00	5,760,243	100.00	5,167,103
							4,994,806
							100.00

^a 391,055 tons to Europe, 687,1 to Africa, 2,817 to West Indies, 658 to Ontario.

1919
1920

Number and Class of Workmen in the Coal Mines of Nova Scotia, Year ended September 30, 1920

	Days pit worked	Surface	Under- ground	Cutting coal	Total colliery men	Total colliery days	Average Daily Force		
							Total commercial upkeep repairs	Total workmen	Total horses
Bedford Coal Co.	292.8			3,319	907	5	164	1,571,283	2,240
Nova Scotia Steel & Coal Co.	295.5	300	662	540	1,502	466,992	1,29	1,631	450
Blaird Coal and Consignment	310	42	54	105	201	46,224	8	209	129
Bridgewater Coal Company	313	14	11	39	64	20,036	.....	64	.....
Algeo Coal Company	300	18	8	22	48	11,400	.....	48	3
Foxborough, Bridgewater & Coal Co.	294	120	265	185	570	167,380	160	730	42
Port Hawkesbury Coaleries, Ltd.	288	79	56	58	133	38,304	8	141	42
N. W. Coal Co., Charlottetown, Prince Edward Island, Home, Trustee,	143	2	1	1	11	1,564	1	12	2
St. Peters Mine, Ltd.	29	4	3	3	24	712	.....	.....	.....
Acadia Coal Co., Ltd.	305	207	518	596	1,341	409,005	117	1,458	70
Intercolliery Coal Mine, Ltd.	306	5	135	15	151	18,264	22	473	28
Greenwood Coal Company	319	7	31	34	61	126	8	134	.....
Wilmot Mining Co.	300	1	11	12	30	15,900	3	56	.....
Charlottetown & Colliery Co.	295	1	1	1	53	297	787	260,391	12
Martineau Coal, Railway & Power Co.	295.8	103	182	185	470	159,052	10	480	48
Montague Coal Co.	297	22	39	51	112	33,342	15	117	5
Provincial Mining Co.	256	7	5	2	14	3,377	1	15	1
Porterside Coal Co.	336.8	10	9	27	46	10,892	2	48	2
Expert Coal Company	197	15	10	20	45	8,884	5	50	1
Sherwood & Swanson (Fundy Mine)	100	10	12	10	32	3,200	3	35	1
Leander McAloney (Marsh Mine)	50	1	6	7	17	1,385	6	23	1
St. John Coal Co.	98	10	15	30	55	11,433	1	56	1
Bethel Coal Co.	102	6	3	5	14	1,431	1	15	1
Kempower Coal Co., Riversdale Coal & Ry. Co.	49	5	1	13	642	6	13	13	9
Archie Coal Co.	140	2	2	3	7	978	2	.....	.....
	2,295				5,733	3,282	11,300	3,375,954	2,744
								14,020	787

New Brunswick

The production of coal in New Brunswick in 1920 was 166,048 tons as against 179,108 tons in 1919, showing a decrease of 13,060 tons, or 7.3 per cent.

Through the courtesy of the operators the department is permitted to publish a record of the production from individual properties, as shown in the accompanying tables:

Production of Coal in New Brunswick, 1920

In short tons

	Time in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	299 days.	20,916	988	21,904
Grand Lake Coal Co., Ltd., Minto.....	Last 3 mos.	1,415	.....	1,415
Kelly Coal Co., Ltd., Minto.....	Last 5 mos.	1,630	225	1,855
^a Miramichi Lumber Co. (3).....	12 mos.	28,157	1,080	29,237
Minto Coal Co., Ltd., Minto.....	313 days.	35,486	2,412	37,898
Ridge Coal Co., Ltd., Newcastle Bridge.....	309 days.	9,232	2,419	11,651
Rothwell Coal Co., Ltd., Rothwell.....	284 days.	11,253	460	11,713
Rende Construction Co., Ltd., Minto.....	179 days.	22,086	800	22,886
Welton, Harvey, Minto.....	249 days.	23,937	.....	23,937
^a Welton & Henderson, Ltd., Minto (2).....		3,465	87	3,552
Total New Brunswick.....		157,577	8,471	166,048

^aFormerly J. Coakley (1) and John Henderson (1). ^bFormerly G. H. King (1), A. D. Taylor (1), and Northfield Coal Co. (1).

Production of Coal in New Brunswick, 1919

In short tons.

	Time in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	10 mos.	16,143	1,143	17,286
Coakley, J., Minto.....	5 mos.	612	.....	612
Grand Lake Coal Co., Ltd., Minto.....	20 days.	744	.....	744
King, G. H., Chipman.....		9,088	263	9,951
Minto Coal Co., Ltd., Minto.....	290 days.	91,299	2,518	93,817
Northfield Coal Co., Ltd., Minto.....	4 mos.	1,261	.....	1,261
Ridge Coal Co., Ltd., Newcastle Bridge.....	304 days.	5,392	408	5,800
Rothwell Coal Co., Ltd., Rothwell.....	8 mos.	6,255	682	6,937
Sheffield Coal Co., Ltd., Minto.....		15,266	1,550	16,816
Taylor, A. D., Minto.....	233 days.	9,453	560	10,013
Welton Harvey, Minto.....	12 mos.	14,001	.....	14,001
All others.....		1,665	205	1,870
Total New Brunswick.....		171,779	7,329	179,108

^aIncludes consumption under boilers, etc., and coal used by workmen.

Annual Production of Coal in New Brunswick

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
		\$	\$ cts			\$	\$ cts
1887	10,040	23,607	2 35	1904	9,112	18,224	2 00
1888	5,730	11,050	1 93	1905	29,400	58,800	2 00
1889	5,673	11,733	2 07	1906	34,076	68,152	2 00
1890	7,110	13,850	1 95	1907	34,584	77,814	2 25
1891	5,422	11,030	2 03	1908	60,000	135,000	2 25
1892	6,768	9,375	1 39	1909	49,029	98,496	2 25
1893	6,200	9,837	1 59	1910	55,455	110,910	2 00
1894	6,469	10,264	1 59	1911	55,781	111,562	2 00
1895	9,500	14,250	1 50	1912	44,780	89,560	2 00
1896	7,500	11,250	1 50	1913	70,311	166,637	2 37
1897	6,000	9,000	1 50	1914	98,049	241,075	2 46
1898	6,160	9,240	1 50	1915	127,391	309,612	2 43
1899	10,528	15,792	1 50	1916	143,540	386,016	2 69
1900	10,000	15,000	1 50	1917	189,095	708,010	3 74
1901	17,630	51,857	2 94	1918	268,212	1,331,710	4 97
1902	18,795	39,680	2 11	1919	179,106	794,761	4 42
1903	16,000	40,000	2 50	1920	166,048	1,055,286	6 36
Total							
		11,769,496	6,068,440				

The coal producing areas include the Grand Lake coal-fields in Queens and Sunbury counties, and the Beersville area in Kent county. In the Grand Lake area the coal seams, which vary in thickness from 20 to 32 inches, are found at a depth of from 30 to 60 feet below the surface.

Saskatchewan

The coal deposits of Saskatchewan furnish coal of the lignite variety only, and the production in 1920 from 63 collieries was 343,475 tons, valued at \$819,320, as compared with 380,169 tons, valued at \$820,522 in 1919, a decrease of 36,694 tons, or 9.7 per cent.

The 1920 production included 318,987 tons of coal sold and 24,488 tons used by producers for colliery consumption, by workmen, or in brickmaking.

The output of coal comes chiefly from the vicinity of Estevan, located on the Souris river, near the southeastern corner of the province. Coal deposits exist for 75 or 100 miles in a northwest-southeast direction along the Souris river, on Big Muddy creek, draining Willowbunch lake and on the south branch of the Saskatchewan river, about 100 miles southwest of Saskatoon.

The annual production and the production by principal operators in 1919 and 1920 is shown in the following tables:

Production of Coal in Saskatchewan in 1920, by Principal Operators

Name of Company	In short tons			Time in operation	Total for galleries*	Total production	Wt. av.				
	Labour		Below								
	Above	Below									
Anderson, Sons, Estevan	8	5	5 mos.	1,738	1,738	1,738	318				
Kenfert Contractors Co., Ltd., Estevan	13	34	292 days	40,324	840	41,104	41,104				
Kenfert Mine, The, Estevan	13	14	263	62,962	2,480	65,442	65,442				
Crescent Contractors, Ltd.	17	18	280	33,818	1,165	34,983	34,983				
Estevan Bros. Coal & Brick Co., Ltd., Estevan	1	1	9 mos.	1,565	1,565	1,565	1,565				
Estevan Bros. Coal & Brick Co., Ltd., Estevan	2	2	275 days	1,327	41	1,368	1,368				
Farwell Bros., Estevan	1	3	12 mos.	1,734	1,734	1,734	1,734				
Farwell Bros., Estevan	1	4	4	746	746	746	746				
Group of Wms., Shaftesbury	24	32	8	41,986	4,773	46,758	37				
MacNeil & Brooks, Estevan, abandoned June, 1920	1	1	6	973	38	1,011	417				
Mantidick & Sons, Estevan Coal Co., Ltd., Estevan	1	3	6	3,308	301	3,639	3,639				
McGraw Bros., Estevan	4	4	12	3,498	41	3,739	3,739				
Nicholson, H. J., Estevan	1	4	12	1,990	1,390	No record.	No record.				
Parkinson, G. C., Estevan	1	8	19 + 197 days	13,376 (a)	4,122	17,487	17,487				
Scalder, Jas., Estevan	1	1	114 days	896	896	896	896				
S. and Coal Brick & Power Co., Ltd., Shand	1	10	10 mos.	2,195	2,195	2,195	2,195				
Shand, Edwina	1	10	10 mos.	2,195	2,195	2,195	2,195				
Western Contractors Ltd., Regina, New	10	4	10 mos.	2,195	2,195	2,195	2,195				
Western Dominion Colleries Ltd., Taylorton	32	71	220 days	85,436	5,229	91,165	91,165				
Hamilton, H. V., Riverside-Mine, Taylorton	1	3	6 mos.	1,033	1,033	1,033	1,033				
All other operators	14	73	16,823	16,823	74	16,847	16,847				
Total, Saskatchewan	127	326	.....	318,987	24,488	343,475	2,774			

* Includes consumption under brothers, etc., and coal used for brick-making. (a) also includes coal for brick-making. (b) Development.

Production of Coal in Saskatchewan in 1919, by Principal Operators

(In short tons)

Name of Company	Time in operation	Total sales for colliery use ^a	Total production use ^a
Anderson, Niels, Estevan	128 days	1,615	1,615
Bienfait Commercial Co., Ltd., Bienfait	12 mos.	40,079	41,740
Bienfait Mine (The) Bienfait	12 mos.	65,992	68,479
Rescent Collieries, Ltd.	7 mos.	11,944	12,574
Eidsness Bros., Gladmar		1,812	1,812
Estevan Coal and Brick Co., Ltd., Estevan	283 days	10,450	10,602
Heuvel, Henry V., Hart	5 mos.	1,168	1,168
Inter-Provincial Coal Co., Ltd., Roche Percée	7 mos.	2,315	2,351
Dempsey, Wm., Shaunavon	2 mos.	3,180	3,180
McNeil & Brooks, Estevan	12 mos.	1,456	1,456
Manitoba and Saskatchewan Coal Co., Ltd., Estevan	201 days	61,183	67,142
Nicholson, H., Estevan	250 days	7,000	7,124
Parkinson, Geo., Estevan	12 mos.	4,419	4,419
Salaba, Jas.		1,947	1,977
Shand Coal, Brick and Power Co., Ltd., Shand	12 mos.	19,455	21,795
Siddall, Edwin	10 mos.	1,016	1,016
Western Dominion Collieries, Ltd., Taylortown	213 days	109,910	115,487
Hamilton, H. A.	76 days	1,340	1,340
All other operators (46)		8,118	8,118
Total Saskatchewan		354,399	380,169

^aIncludes consumption under boilers, etc., and coal used by workmen.

Annual Production of Coal in Saskatchewan

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
	\$	\$ cts.			\$	\$	\$ cts.
1887	(a) 400	800	2 00	1906	108,398	164,146	1 51
1890	200	200	1 00	1907	151,232	252,437	1 67
1891				1908	156,556	253,790	1 69
1892	5,400	9,325	1 73	1909	192,125	296,339	1 54
1893	8,325	12,485	1 50	1910	181,156	293,923	1 62
1894	(b) 15,051	15,153	1 01	1911	206,779	347,248	1 66
1895	15,769	31,538	2 00	1912	225,342	368,135	1 63
1896	16,706	25,059	1 50	1913	212,897	358,192	1 68
1897	25,000	37,500	1 50	1914	232,299	374,245	1 61
1898	25,000	37,500	1 50	1915	240,197	365,246	1 52
1899	25,000	37,500	1 50	1916	281,300	441,836	1 57
1900	40,500	60,750	1 50	1917	355,445	662,451	1 86
1901	45,000	72,000	1 60	1918	346,847	722,148	2 08
1902	70,400	112,640	1 52	1919	380,169	820,522	2 16
1903	116,703	169,618	1 45	1920	343,475	819,320	2 39
1904	124,585	187,021	1 50	Total	4,250,062	7,501,401	
1905	107,596	152,334	1 42				

From Turtle Mountain district, Manitoba

Including a small quantity from the Turtle Mountain district, Manitoba

Alberta

Coal production in this province includes a small tonnage of semi-anthracite from the Bankhead mine at Banff, bituminous coals of excellent quality, as well as a considerable tonnage of lignite coal.

In 1920 bituminous coal contributed 49.9 per cent of the total production, lignite, 47.8 per cent, and semi-anthracite, 2.3 per cent.

The total production of coal in Alberta in 1920 was 6,833,500 tons, valued at \$29,849,608, or an average of \$4.37 per ton, as compared with a production of 4,964,535 tons, valued at \$18,294,495, in 1919.

There are many small operators in the province—the number reporting production in 1920 being 250. There were 65 companies reporting a production in excess of 10,000 tons, and the aggregate production by these firms was 96.3 per cent of the total for the province. Seventeen mines reported a production exceeding 100,000 tons each, the largest operators being the West Canadian Collieries, Limited, with 756,640 tons from Bellevue and Greenhill collieries; the Canadian Pacific Railway, with a total of 555,212 tons from Bankhead, Lethbridge, and Taber; the North American Collieries, Limited, with 552,016 tons from Lovettville, Coalhurst, Evansburg, Dodds, and Drumheller; the Brazeau Collieries, Limited, with 411,990 tons from Nordegg; the Hillcrest Collieries, Limited, with 331,857 tons; the McGillivray Creek Coal and Coke Company, Limited, with 330,980 tons; the International Coal and Coke Company, Limited, with 300,852 tons; the Canmore Coal Company, with 275,447 tons; and the Oliphant Munson Collieries, Ltd., with 244,633 tons.

Of the total production 6,313,503 tons were reported as sales, including 6,180,585 tons sold for consumption in Canada, and 132,918 tons sold for export to the United States; 519,997 tons were used by the producers for colliery operations, the manufacture of briquettes, and for workmen.

The falling-off of over 1,000,000 tons in 1919 was ascribed by the Chief Inspector of Mines for the province, in part to the accumulation at the end of 1918 of unusually large stocks in the hands of the trade or consumers. It will be noted also that less coal was shipped to points outside the province during the year 1919 than during the previous year. That portion of central Canada comprising the provinces of Saskatchewan, Manitoba, and Ontario west of the head of the Lakes had been supplied annually with from 2,000,000 to 2,500,000 tons of coal imported from the United States. Restrictions on this supply during 1918 necessitated a larger consumption within the territory of Alberta coal. An effort was made on the part of the Alberta producers to secure and retain an increasing proportion of this market. In view of this it is not surprising that the 1920 production reflected this effort by attaining its maximum record.

The production of anthracite, bituminous, and lignite coal during 1919, and the production of each of the larger collieries during 1920 and 1919 are shown in the following tables:

Production of Coal in Alberta By Districts

In short tons

District	1917						1918						1919						1920					
	Production																							
Barrel	108,227	2,39	117,405	1,9	111,324	2,24	175,679	2,38																
Calderwood	1,188,456	25,09	1,395,062	36,72	1,175,535	20,498	1,740,807	25,90																
Calderwood	196,947	4,16	274,715	4,04	201,808	4,07	272,445	4,05																
Calderwood	306,823	5,67	457,078	6,55	408,953	6,22	477,856	6,64																
Calderwood	218,733	3,25	285,005	4,77	405,668	7,17	411,815	7,54																
Calderwood	179,182	3,39	312,945	5,23	361,440	7,26	365,744	7,40																
Calderwood	139,164	2,94	137,042	2,29	112,964	2,28	2,32,304	7,40																
Calderwood	2,190,305	46,43	2,977,327	49,86	2,396,388	46,46	3,110,872	49,91																
Calderwood	1,652	0,10	4,369	0,05	4,119	0,05	6,238																	
Calderwood	614,012	12,96	803,211	13,53	729,252	11,68	811,114	12,16																
Calderwood	946	0,07	1,48	0,01	1,394	0,01	1,865																	
Calderwood	8,047	0,18	16,578	0,11	16,013	0,04	16,046																	
Calderwood	1,7,151	3,32	16,580	2,73	101,163	2,04	1,7,094	1,79																
Calderwood	6,0,1	0,1	15,731	0,11	5,111	0,11	5,839																	
Calderwood	13,975	0,50	17,040	0,39	20,195	0,34	13,264																	
Calderwood	7,076	0,17	7,585	0,17	7,673	0,17	8,084																	
Calderwood	1,129	0,02	6,010	0,01	7,92	1,55	1,722																	
Calderwood	631,765	16,34	865,200	14,32	13,70	15,70	1,783	17,34																
Calderwood	20,713	0,56	13,177	0,58	14,670	0,56	15,70																	
Calderwood	9,251	0,19	11,482	0,19	5,958	0,19	5,958																	
Calderwood	25,650	0,51	29,163	0,39	30,640	0,39	30,640																	
Calderwood	16,095	0,44	11,445	0,42	11,456	0,42	11,456																	
Calderwood	15,021	0,52	16,802	0,28	15,078	0,28	15,078																	
Calderwood	22,455	0,47	25,786	0,45	25,786	0,45	25,786																	
Calderwood	4,301	0,09	5,152	0,09	7,41	0,09	7,41																	
Calderwood	9,802	0,21	11,126	0,19	11,700	0,18	11,872																	
Calderwood	6,621	1,20	14,739	0,94	8,410	1,08	6,840	1,12																
Calderwood	68,800	1,47	66,699	1,17	65,011	1,39	59,760	0,95																
Calderwood	236,208	5,41	256,091	4,30	34,006	5,88	311,606	5,00																
Calderwood	121,080	2,50	105,721	1,77	9,631	1,84	15,924	1,45																
Calderwood	18,199	0,38	19,259	0,12	4,865	0,12	1,75,744	3,74																
Calderwood	4,301	0,09	5,152	0,09	7,41	0,09	7,41																	
Calderwood	2,167,864	5,02	2,178,176	5,00	1,75,744	3,74	1,75,744	3,74																
Calderwood	11,764	0,29	18,961	0,42	12,456	0,42	12,456																	
Calderwood	81,944	1,71	101,749	1,70	109,196	2,1	110,988	0,06																
Calderwood	2,110																							
Calderwood	2,128,868	5,12	2,189,184	4,82	2,189,824	4,82	2,189,824	4,82																
Calderwood	4,739,688	100,00	5,972,816	100,00	4,983,577	100,00	4,983,577	100,00																

Table 1
Coal

Production

Production of Coal in Alberta, in 1920, by Principal Collieries.

Name of Company and Mine Address	In short tons			Labour	Time in operation	Total sales	Total colliery consumers used	Total production
	Above ground	Below ground	Waste					
Alberta Block Coal Co., Ltd., Drumheller	.33	120	243 days	122	632	6,220	1,28	8,522
Alberta Coal Mining Co., Ltd. (The), Ltd., Ltd.	19	541	902	51	322	3,000	74	3,022
Atlas Coal Co., Ltd., Drumheller	45	22	247	60	674	3,89	68	6,043
Banff Coal Co., Ltd., Banff	11	4	213	34	734	30	329	30
Bellvue Collieries, Ltd., Bellvue	26	1	244	44	642	4,476	49	115
Big Valley Coal Co., Big Valley	15	42	259	42	957	1,640	65	571
Blackstone Coal, Lminated, Blackstone Mine	49	10	221	33	564	33	364	33
Blue Diamond Coal Co., Ltd., Brule	113	164	246	118	447	77	673	126
Brazeau Collieries, Ltd., Nordegg	178	173	268	404	995	7	897	111
Brookdale Collieries, Ltd., Lovettsville	12	18	218	45	613	15	613	15
Bush Mine Coal Co., Beverly	18	55	272	68	661	4,740	70	244
Caledonia Coal Co., Ltd., Coalspur	46	467	8,000	66	126	1,142	68	258
Canada West Coal Co., Ltd., Tabor	56	104	223 days	73	080	16,405	90	385
Canadian Distant Coal Co., Ltd., Distant	11	20	123 days	22	400	1,206	23	696
Canadian Pacific Railway								
Lethbridge Mine								
Galt Mines, Lethbridge								
Can. Govt. Coal Co., Ltd., Canmore								
Cardiff Collieries, Ltd., Cardiff								
Chinook Coal Co., Ltd., Commerce								
City of Lethbridge Coal Mine, Lethbridge								
Clover Bar Coal Mine Co., Ltd., Clover Bar								
Dawson Coal Co., Ltd. (The), Edmonton								
Davidall Coal Co., Ltd. (The), Tolmid								
Dow in Stevens Co., Twin City Mine, Edmonton								
Drumheller Land Co., Ltd., Drumheller								
Edmonton Collieries, Ltd., Edmonton								
Ekin Coal Co., Ltd., Drumheller								
Falls Coal Co., Ltd., Three Hills								
Excelsior Collieries, Ltd., Drumheller								
Kedard Coal, Ltd., Lethbridge								
Foothill Collieries, Ltd., Lovettsville								
Fraser-McKay Collieries, Ltd., Clover Bar								
Great West Coal Co., Ltd. (The), Clover Bar								
Great West Coal Co. (Star Mine), Aerial								
Hamilton Coal Co., Wayne								
Hillcrest Collieries, Ltd., Hillcrest								
Humberstone Coal Co., Beverly								
Hy-Circle Coal Co., Ltd., Drumheller								
International Coal & Coke Co., Ltd., Colinton								
Jasper Park Collieries, Ltd., Poehontas								

Production of Coal in Alberta, in 1920, by Principal Collieries—Concluded.

Name of Company and Mine Address	Labour		Time in operation	Total sales	Total colliery consumption	Total production	Waste
	Above ground	Below ground					
Lewell Collieries, Ltd., Wayne.....	19	44	221 days	72,018	1,150	73,168	
Lakeside Coal, Ltd., Wabamun.....	14	39	12 months	38,572	740	39,072	
Lethbridge Coal Co., Ltd., Lethbridge.....	10	18	211 days	12,063	966	12,149	3,200
Marcus Collieries Ltd., Clover Bar.....	15	67	25½	19,060	2,100	21,109	
McGillivray Creek Coal & Coke Co., Ltd., Coleman.....	107	280	298	1,117	1,846	30,980	
McPeak P. J. Edmonton.....	7	33	277	1,122	223	25,180	7,740
McLland Collieries, Ltd., Mollardvale.....	34	115	279	87	804	3,100	93,028
Mountain Park Coal Co., Ltd., Mountain Park.....	71	181	298	162	1,165	11,648	
Mountain Park Coal Co., Ltd., Mountain Park.....	21	61	131	58	241	1,150	173,815
Newcastle Junior Mining Co., Ltd., Drumheller.....	6	10	122	10,008	10,008	10,008	
North American Collieries Ltd.—							
Pacific Pass, Lovettsville (now abandoned).....	42	64	5 months	35,083	5,279	40,362	1,630
Monarch, Drumheller.....	64	91	290 days	132,217	8,771	140,988	5,968
Olfert-Munson Collieries Ltd., Oliphant Mines.....	54	154	267	113,257	7,110	120,367	6,257
Premier Coal Co., Ltd., Clover Bar.....	121	272	260	229,616	20,683	250,299	10,288
Royal Collieries, Ltd., Tuber.....	177	13	268	228,659	5,974	244,633	
Rock Springs Coal and Brick Co., Ltd., Tuber.....	7	46	196	12,142	1,273	12,142	
Rosevale Coal and Clay Products, Ltd., Rosedale.....	12	46	196	36,021	1,273	37,284	1,273
Rock Springs Coal and Clay Products, Ltd., Tuber.....	15	43	110	14,631	3,711	18,342	3,711
Rose Deer Coal Mining Co., Ltd., Wayne.....	54	106	294 days	119,998	2,179	122,177	
Saunders-Alberta Collieries, Ltd., Saunders.....	37	120	212	86,382	6,475	92,857	8,370
Saunders Creek Collieries, Ltd., Saunders.....	20	27	283	19,123	840	20,012	
Sheraton Coal Co., Ltd., Drumheller.....	18	40	244	19,575	1,894	21,466	
Spicer Coal Co., Ltd., Drumheller.....	20	56	199	44,539	3,562	48,901	
Yellowhead Coal Co., Ltd., Coalspur.....	11	24	215	23,809	7,600	34,400	1,064
Yellowhead Coal Co., Ltd., Coalspur.....	33	65	142 months	21,562	1,150	22,709	
West Canadian Collieries—							
Calgary.....	113	278	288 days	354,885	17,883	372,718	
Greenhill Commercial Co., Ltd., Wayne.....	103	223	260	1,153,043	8,879	1,153,921	5,015
Western Gem Mining Co., Ltd., Drumheller.....	49	129	196	7,756	5,666	78,921	
Yellowhead Coal Co., Ltd., Coalspur.....	16	62	217	82,290	1,398	84,658	
Total, 65	3,095	6,153	—	510,815	6,779,539	104,747	
All other operators—185	184	622	—	234,789	9,172	238,961	240
Total, Alberta	3,279	6,775	—	519,997	6,843,700	114,717	

^a Includes coal used up in the manufacture of briquettes, a large portion having been lifted from waste heap.

Production of Coal in Alberta in 1919, by Principal Collieries

In short tons

Name of Company and Mine Address	Time in operation	Total sales	Total colliery consumption	Total production
Alberta Black Coal Co., Ltd., Drumheller	183 days	77,386	4,155	81,541
Alberta Coal Mining Co., Ltd. (The), Cardiff	175 "	54,749	2,927	57,676
Atlas Coal Co., Ltd., Drumheller	180 "	47,198	3,655	50,853
Banner Coal Co., Cardiff	8 mos	40,782	1,450	42,212
Belleview Collieries, Ltd., Bellevue	126 days	11,857	1,306	13,223
Big Valley Coal Co., Big Valley	311 "	30,661	645	31,306
Blue Diamond Coal Co., Ltd.	164 "	96,681	4,179	100,860
Brazeau Collieries, Ltd., Nordegg	216 "	276,698	5,846	282,544
Brookdale Collieries, Ltd., Lovettsville	90 "	12,815	404	13,219
Bush Mine Coal Co., Beverly	223 "	48,441	1,230	49,671
Cadomin Coal Co., Ltd., Coalspur	225 "	157,850	1,165	159,015
Canadian West Coal Co., Ltd., Taber	143 "	39,833	12,492	52,325
Canadian Pacific Railway				
Bankhead Mine				
Galt Mines, Lethbridge	196 days	19,156	10,921	111,324
Canmore Coal Co., Ltd., Canmore	210 "	241,154	43,716	285,170
Cardiff Collieries, Ltd., Cardiff	2001 "	184,728	17,020	201,748
Chinook Coal Co., Ltd., Commerce	203 "	70,802	5,051	75,853
City of Lethbridge Coal Mine, Lethbridge	272 "	61,253	16,990	78,243
Clover Bar Coal Mine, Co., Ltd., Clover Bar	7 mos	11,844		11,844
Dawson Coal Co., Ltd. (The), Edmonton	177 days	13,583	1,984	15,567
Dinant Coal Co., Ltd., Dinant	260 "	14,883		14,883
Dobell Coal Co., Ltd., Tofield	313 "	22,626	968	23,594
Drumheller Land Co. (The), Drumheller	178 "	29,587	2,880	32,467
Edmonton Collieries, Ltd., Edmonton	249 "	18,216		18,216
Ellis Coal Co., Ltd., Three Hills	242 "	16,613	2,032	18,645
Federal Coals, Ltd., Lethbridge	270 "	22,511	1,356	23,867
Fraser-McKay Collieries, Ltd., Clover Bar	290 "	21,733	285	22,038
Great West Coal Co., Ltd. (The), Clover Bar	2651 "	86,927	6,989	93,916
Great West Coal Co., (Star Mine), Aerial	157 "	39,153	941	34,094
Hamilton Coal Co., Wayne	9 mos.	15,309	530	15,839
Hillcrest Collieries, Ltd., Hillcrest	222 days	226,463	12,842	239,305
Humberstone Coal Co., Beverly	194 "	57,201	5,932	63,133
Hy-Grade Coal Co., Drumheller	219 "	39,558	226	40,084
International Coal & Coke Co., Ltd., Coleman	180 "	158,240	15,432	173,672
Jasper Park Collieries, Ltd., Pocahontas	158 "	41,106	3,702	44,808
Jewell Collieries, Ltd., Wayne	134 "	20,256	528	20,784
Lakeside Coals, Ltd., Wabamun	216 "	31,328	1,589	32,117
Marcus Collieries, Ltd., Clover Bar	265 "	21,996	1,684	23,680
McGillivray Creek Coal & Coke Co., Ltd., Coleman	212 "	202,524	8,357	210,878
McPeak, P. J., Edmonton	222 "	17,539	1,688	19,227
Midland Collieries, Ltd., Midlandvale	163 "	58,800	4,625	63,425
Mountain Park Coal Co., Ltd., Mountain Park	219 "	103,848	9,116	112,964
Newcastle Coal Co., Ltd., Drumheller	126 "	47,805	1,245	49,050
North American Collieries, Ltd.—				
Pacific Pass, Lovettsville	2171 "	72,008	8,130	80,133
Pembina, Evansburgh	250 "	98,275	7,921	106,198
Regal, Dodds	9 mos	13,413		13,416
Monarch, Drumheller	119 days	32,953	3,154	36,107
Lethbridge, Coalhurst (Kipp)	187 "	150,849	14,926	165,778
Oliphant-Murson Collieries, Ltd., Oliphant M.		88,703	985	89,688
Ottewell Coal Co., Ltd., Clover Bar	280 days	11,000	200	11,200
Premier Coal Co., Ltd., Drumheller	5 mos.	24,119	738	24,857
Redcliff Brick and Coal Co., Redcliff	180 days	15,674		15,674
Regal Collieries, Ltd., Taber	171 "	22,992	3,536	26,528
Rock Springs Coal and Brick Co., Ltd., Elcan	174 "	13,283	1,943	15,226
Rosedale Coal and Clay Products Co., Ltd., Rosedale	166 "	75,947	1,946	77,893
Rose Deer Coal Mining Co., Ltd., Wayne	151 "	75,200	4,624	79,824
Round Hill Collieries, Ltd., Roundhill	243 "	20,350	175	20,525
Saunders Creek Collieries, Ltd., Saunders	264 "	20,330	1,004	21,334
Scranton Coal Co., Drumheller	165 "	44,074	2,467	46,541
Spicer Coal Co., Ltd., Dinant	171 "	16,950	446	17,396
Tofield Coal Co., Ltd., Tofield	249 "	52,763	800	53,563
Twin City Coal Co., Ltd., Edmonton South	171 "	30,817	3,072	33,891

(a) Includes coal used in the manufacture of briquettes, a large portion having been lifted from waste heap.

Production of Coal in Alberta in 1919, by Principal Collieries (Concluded)

Annual Production of Coal in Alberta

Calendar Year	Sept. 1 Value	Avg. price per ton	Calendar Year	Sept. 1 Value	Avg. price per ton												
1880	1,220	1	1881	81,112	1	1882	6	1	1883	6	1						
1885	71,152	1	1886	157,577	1	1887	2,131	1	1888	961,967	1	1889	1,404,524	1	1890	2,121	1
1888	115,111	1	1889	183,354	1	1890	1,591	1	1891	2,614,762	1	1892	2,141	1			
1890	97,364	1	1891	179,640	1	1892	1,591	1	1893	2,866,286	1	1894	2,141	1			
1893	28,733	1	1894	198,298	1	1895	1,544	1	1896	1,685,661	1	1897	4,127,311	1	1898	2,457	1
1894	71,131	1	1895	437,248	1	1896	2,511	1	1897	1,994,741	1	1898	1,838,109	1	1899	2,457	1
1892	178,970	1	1893	460,605	1	1894	2,574	1	1895	2,894,469	1	1896	7,065,736	1	1897	2,457	1
1896	50,070	1	1897	580,260	1	1898	2,556	1	1899	1,511,036	1	1900	3,979,264	1	1901	2,626	1
1898	183,940	1	1899	473,827	1	1900	2,568	1	1901	3,240,577	1	1902	8,113,525	1	1903	2,626	1
1899	19,885	1	1900	382,526	1	1901	2,258	1	1902	4,914,755	1	1903	10,418,941	1	1904	2,626	1
1900	399,162	1	1901	581,832	1	1902	2,784	1	1903	3,683,045	1	1904	9,350,392	1	1905	2,626	1
1901	32	1	1902	630,108	1	1903	2,600	1	1904	3,360,818	1	1905	8,288,079	1	1906	2,626	1
1902	115,088	1	1903	787,720	1	1904	2,504	1	1905	4,559,054	1	1906	11,380,577	1	1907	2,626	1
1903	699,600	1	1904	774,000	1	1905	2,504	1	1906	1,736,308	1	1907	14,153,685	1	1908	2,626	1
1906	411,450	1	1907	778,625	1	1908	2,504	1	1909	5,972,846	1	1910	20,537,287	1	1911	3,411	1
1907	410,275	1	1908	850,687	1	1909	2,504	1	1910	4,964,535	1	1911	18,291,495	1	1912	3,686	1
1908	502,819	1	1909	960,601	1	1910	2,388	1	1911	6,833,500	1	1912	29,849,608	1	1913	4,337	1
1909	495,893	1	1910	1,117,541	1	1911	2,258	1	1912	57,905,000	1	1913	140,840,359	1	1914	4,337	1

Disposition of the Total Output of Coal and Briquettes of Alberta

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Disposition of the Total Output of Coal, Briquettes and Coke of Alberta Calendar Year 1919

THEORY OF THE ECONOMIC SYSTEM

The butyryl ester was probably used in other butyryl esters.

British Columbia

The production of coal in British Columbia in 1920 was 2,858,877 tons, as compared with 2,435,933 tons in 1919, an increase of 422,944 tons, or 17.4 per cent.

Of the total production in 1920, 2,411,024 tons were reported as sales, including 1,555,510 tons sold for consumption in Canada, 876,949 tons sold for export to the United States, and 8,565 tons to other countries. There were 117,853 tons used by the producers, including 116,124 tons for making coke and 301,729 tons for the operation of collieries and by workmen.

The production and distribution of the collieries on Vancouver island, of the Crowsnest district, and of the interior at Nicola and Princeton, are shown separately in the following tables.

The three largest operators in the province were: the Crowsnest Pass Coal Company, with a total production of 779,915 tons; the Canadian Western Fuel Company, with 740,363 tons; and the Canadian Collieries (Dunsmuir) Limited, with 674,618 tons. These three companies contributed 76.8 per cent of the province's production.

Coal production in British Columbia reached a maximum in 1910, with a total of 3,330,745 tons. In the following year the production fell to 2,542,532 tons and the average production during the past nine years has been slightly less—2,532,000 tons. Previous to 1895 practically 80 per cent of the coal production was sold for export. The development of metallurgical and industrial activity, however, during the following fifteen years, greatly increased the home consumption, while the actual tonnage sold for export has not shown any marked change during thirty years.

Coal Production by Districts in British Columbia, 1920

In short tons

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	1,173,050	154,207	228,253	1,555,510
Sold for export to United States.....	330,703	1,639	535,607	976,949
Sold for export to other countries.....	8,565	—	—	8,565
Total sales.....	1,521,318	155,846	763,860	2,411,024
Used by operator for making coke, etc.....	—	2,277	113,847	116,124
Used for colliery consumption, etc.....	225,993	5,535	66,201	301,729
Production.....	1,747,311	167,658	943,908	2,858,877
Per cent.....	61.1	5.9	33.0	100.0
Output.....	1,993,370	170,131	946,716	3,110,217

Coal Production by Districts in British Columbia, 1919

(In short tons)

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	949,234	145,583	73,305	1,168,122
Sold for export to United States.....	427,103	7,008	418,533	852,704
Sold for export to other countries.....	nil	—	nil	—
Total sales.....	1,376,337	152,651	491,838	2,020,826
Used by operator for making coke, etc.....	62,353	—	100,763	163,116
Used for colliery consumption, etc.....	186,083	13,421	52,487	251,991
Production.....	1,624,773	166,072	645,088	2,435,933
Per cent.....	66.7	6.8	26.5	100.0
Output.....	1,915,129	168,993	623,836	2,707,958

Coal Production by Collieries in British Columbia, 1920

In short tons

Colliery	Sold			Issued			Under			Wash. and			Loss		
	In Canada	United States	For other countries	Total	Making cokes etc.	Under coking benches	For electric plants	Under coking benches	For electric plants	Under coking benches	For electric plants	Under coking benches	For electric plants	Under coking benches	For electric plants
1. Hawood	104,953	7,116	2,973	144,142	47,592	19,714	2,658	8,2	1,000	11,741	1,200	1,000	1,000	1,000	1,000
No. 1 Mine	188,217	1,840	3,907	202,964	63,392	21,427	2,088	1,488	1,488	21,427	2,088	1,488	1,488	1,488	1,488
Reserve and Walkersfield	180,571	2,385	1,385	179,722	43,527	11,137	1,000	1,000	1,000	11,137	1,000	1,000	1,000	1,000	1,000
2. East Wellington, No. 1 Mine, B.C.	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124	1,124
3. Wellington.	10,724	122,323	1	130,047	17,424	17,424	17,424	17,424	17,424	17,424	17,424	17,424	17,424	17,424	17,424
4. Onovo	311,908	104,470	1	416,378	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709	12,709
No. 5 South Wellington	67,747	1	1	67,747	4,311	4,311	4,311	4,311	4,311	4,311	4,311	4,311	4,311	4,311	4,311
5. South Wellington Mines.	168,343	15,391	1	184,046	17,344	16,238	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737
6. Craility	162,907	9,096	1	171,003	18,436	18,436	1,836	1,836	1,836	1,836	1,836	1,836	1,836	1,836	1,836
7. Laniville, Orford	29,282	4,483	1	33,765	5,024	5,024	5,024	5,024	5,024	5,024	5,024	5,024	5,024	5,024	5,024
8. Michel	83,276	78,640	1	161,922	113,844	113,844	113,844	113,844	113,844	113,844	113,844	113,844	113,844	113,844	113,844
9. Cow Creek	65,571	479,082	1	544,635	48,572	48,572	48,572	48,572	48,572	48,572	48,572	48,572	48,572	48,572	48,572
10. Corinth	79,406	77,979	1	157,385	6,678	6,678	6,678	6,678	6,678	6,678	6,678	6,678	6,678	6,678	6,678
11. Milliesboro	92,278	1,252	1	93,532	5,757	5,757	5,757	5,757	5,757	5,757	5,757	5,757	5,757	5,757	5,757
12. Inland Coal Hill	17,140	1,619	1	18,779	2,247	2,247	2,247	2,247	2,247	2,247	2,247	2,247	2,247	2,247	2,247
13. Princeton and Ashman collieries	11,100	1	1,100	11	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
14. Coalmont and Ashman collieries	1,555,310	876,949	8,565	2,441,024	116,124	301,729	2,818,877	1,015,670	1,015,670	1,015,670	1,015,670	1,015,670	1,015,670	1,015,670	1,015,670

1. Canadian Western Fuel Company

2. Vancouver-Nanaimo Coal Co. Ltd.

3. Canadian Collieries, Dominion Coal Co. Ltd.

4. Pacific Coast Coal Mines Ltd.

5. Canadian Consolidated Mts. & Power Co. Ltd.

6. Vancouver

7. Newmarket

8. C. & G. Coal and Coke Co. Ltd.

9. Millersburg Collieries Ltd.

10. Newmarket Collieries Ltd.

11. Victoria Collieries Ltd.

12. Victoria Collieries Ltd.

13. Victoria Collieries Ltd.

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Coal Production by Collieries in British Columbia, 1919

Tons

Colliery	Locality	Total			Total			Total			Total		
		Prod.	Consum.	Trade	Wash.	Under	Prod.	Consum.	Trade	Wash.	Under	Prod.	Consum.
1. Barkerville		115,921	36,941	79,557	41,976	32,288	111,813	2,610	6,811	2,610	6,811	46,561	11,441
2. See 1 Mine		175,028	101,337	67,342	62,041	140,284	140,190	8,115	26,982	8,115	26,982	55,540	11,115
3. Reserve and Coal Creek		46,657	17,717	22,141	18,965	59,107	6,611	5,519	18,7	6,611	5,519	61,680	11,115
4. East Waddington, N. Vancouver, B.C.		41,832	7,758	33,610	6,787	12,197	37,948	10,557	1,030	2,714	1,030	42,197	11,115
5. Wellington Extension Mine, Antuco, Chile		186,168	71,171	57,394	51,888	14,327	130,892	4,202	12,676	4,202	12,676	61,839	11,115
6. Coloma Mines, Cumbreland, Chile		313,554	123,538	438,062	26,074	479,093	83,313	11,061	20,969	83,313	11,061	73,74	11,115
7. Wellington, Cumbreland, Chile		40,610	23,930	64,560	18,753	72,871	10,029	11,307	4,214	10,029	11,307	92,938	11,115
8. South Wellington Mines		21,421	3,010	27,431	25,418	10,425	94,931	4,356	4,118	94,931	4,356	25,777	11,115
9. Franklin		10,975	11,740	35,706	10,187	16,043	19,112	1,477	7,000	19,112	1,477	19,112	11,115
10. Merritt		15,616	8,521	262,972	201,322	21,485	1,095	5,349	1,095	5,349	1,095	4,875	11,115
11. Coal Creek		28,739	28,360	49,427	103,776	103,776	20,160	3,673	87,289	20,160	3,673	87,289	11,115
12. Coal Creek		60,488	60,488	57,773	57,773	175	40	40	40	175	40	40	11,115
13. Coal Creek		31,750	31,750	57,376	43,149	1,800	100	100	100	100	100	100	11,115
14. Middleboro		41,470	41,470	17,660	1,679	23,600	1,278	9,436	9,436	9,436	9,436	24,870	11,115
15. Inland Coal Hill		15,625	2,035	15,625	5,940	2,248	2,248	2,248	2,248	2,248	2,248	9,436	11,115
16. Princeton		4,403	5,033	2,200	2,200	650	650	650	650	650	650	650	11,115
17. Ashman		2,200	2,200	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	11,115
18. Merritt		1,168,192	852,704	2,020,826	162,116	251,991	2,435,933	265,560	107,465	265,560	107,465	852,704	2,704,353

1. Canadian Western Fuel Company.
2. British Columbia Coal Mining Co.
3. Canadian Collieries, Dunsmuir, B.C.
4. Pacific Coast Coal Mines, Ltd.
5. Canadian Coal and Coke Co., Ltd.
6. Canadian Collieries, Ltd.
7. Crow's Nest Coal Co., Ltd.
8. Colton Coal and Coke Co., Ltd.
9. Middleboro Collieries Co.
10. Fleming Coal Co., Ltd.
11. Canadian Collieries, Ltd.
12. Coal and Coke Co., Ltd.
13. Colton Coal and Coke Co., Ltd.
14. Merritt Collieries, Ltd.
15. Grampy Consolidated Mfg. Co., Ltd.

Annual Production of Coal in British Columbia

Calendar Year	Home Consumption		Sold for Export		Production ^a	Price per Long ton	Value
	Long tons	Short ton	Long tons	Short ton			
1836 to 1873	480,785				538,480	4.00	1,923,140
1874	81,547	25,023	56,048	81,061	90,788	3.00	243,183
1875	110,145	31,252	66,392	97,644	109,361	3.00	292,932
1876	139,192	47,856	112,329	140,185	157,007	3.00	420,557
1877	154,632	54,311	115,381	139,692	156,455	3.00	419,976
1878	170,846	56,166	164,082	190,848	213,730	3.00	572,544
1879	241,301	80,294	192,096	232,390	260,277	3.00	697,170
1880	267,595	86,513	225,849	272,362	305,045	3.00	817,086
1881	228,357	70,191	189,323	229,514	257,056	3.00	688,542
1882	282,139	86,161	232,111	288,572	393,201	3.00	865,716
1883	213,299	64,786	149,567	214,353	340,075	3.00	643,659
1884	391,070	87,388	306,478	393,886	411,130	3.00	1,181,598
1885	365,596	95,227	237,797	333,024	372,987	3.00	999,072
1886	326,636	85,987	249,205	305,192	375,415	3.00	1,105,576
1887	413,760	99,216	334,849	434,055	480,142	3.00	1,462,165
1888	189,300	115,933	365,714	481,667	539,467	3.00	1,445,001
1889	570,860	121,574	446,675	508,249	630,439	3.00	1,704,747
1890	678,140	177,075	508,270	685,345	707,586	3.00	2,056,035
1891	1,029,097	302,697	806,179	1,000,176	1,130,277	3.00	3,417,528
1892	826,335	266,223	640,579	800,802	937,218	3.00	2,110,406
1893	978,294	207,851	768,917	976,768	1,093,980	3.00	2,930,304
1894	1,012,957	355,776	827,612	993,438	1,112,628	3.00	2,980,254
	939,654	188,349	756,334	944,736	1,058,045	3.00	2,834,049
1895	894,882	261,984	634,238	890,222	1,003,709	3.00	2,688,666
1897	802,206	290,310	619,830	910,170	1,049,390	3.00	2,730,510
1898	1,136,485	375,423	752,866	1,128,286	1,263,980	3.00	3,384,858
1899	1,306,324	26,058	751,711	1,277,769	1,431,101	3.00	3,833,307
1900	1,599,178	685,697	914,183	1,599,831	1,791,833	3.00	4,799,553
1901	1,691,557	799,666	914,163	1,713,829	1,919,488	3.00	5,141,487
1902	1,041,626	837,871	776,809	1,014,680	1,088,441	3.00	3,844,040
1903	1,450,663	947,499	549,449	1,496,948	1,676,581	3.00	4,499,844
1904	1,685,698	1,129,405	533,503	1,693,058	1,862,825	3.00	4,989,174
1905	1,738,696	1,089,667	647,343	1,737,010	1,945,452	3.00	5,211,030
1906	1,899,076	1,256,476	679,829	1,916,305	2,146,262	3.00	5,748,915
1907	2,219,602	1,438,402	673,114	2,111,516	2,364,898	3.50	7,390,306
1908	2,111,931	1,486,511	597,157	2,083,668	2,333,708	3.50	7,292,858
1909	2,388,196	1,785,232	741,667	2,326,899	2,600,127	3.50	8,144,147
1910	3,152,207	1,798,873	1,175,007	2,973,880	3,330,745	3.50	10,408,580
Total				58,715,944	65,759,618		209,521,481

^a This production is obtained by adding "Home Consumption" and "Sold for Export".

^b 5,935 ton of this amount were re-entered as does without the division into "Home Consumption" and "Sold for Export".

Yukon

Coal production in the Yukon district in 1920 was reported as 763 tons, all the product of the Tantalus mine of the Five Fingers Coal Company, near Whitehorse.

Annual Production of Coal in Yukon Territory

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
	\$	\$ ets			\$	\$	\$ ets
1901.....	*5,864	86,230	14 70	1911.....	2,840	12,790	4 50
1902.....	4,910	37,280	7 59	1912.....	9,245	44,958	4 86
1903.....	1,849	29,584	16 00	1913.....	19,722	95,945	4 86
1904.....				1914.....	13,443	53,760	4 00
1905.....	7,000	21,000	3 00	1915.....	9,724	38,896	4 00
1906.....	7,000	28,000	4 00	1916.....	3,300	13,200	4 00
1907.....	15,000	60,000	4 00	1917.....	4,872	29,232	16 00
1908.....	3,847	21,158	5 50	1918.....	2,900	11,600	4 00
1909.....	7,364	49,502	6 72	1919.....	1,100	4,400	4 00
1910.....	16,185	110,925	6 85	1920.....	763	4,430	6 00
				Total.....	136,928	752,880	

* Part of this production was mined in 1900.

† Value not reported, but estimated.

COKE

The accompanying statistics cover only the production of coke in by-product and beehive coke oven plants and do not include retort coke recovered by gas companies.

Both domestic and imported coal are used in the manufacture of coke in Canadian coke oven plants.

In 1920, 957,945 tons of domestic and 1,089,024 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,306,644 tons of coke, thus averaging 63.8 tons of coke per ton of coal charged. Coke from by-product ovens comprised 87.3 per cent of the total.

In 1919, 854,835 tons of domestic, and 1,025,706 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,160,470 tons of coke, thus averaging 0.617 tons of coke per ton of coal charged. Coke from by-product ovens comprised 89 per cent of the total.

The amount of coke sold or used by the producers in 1920 was 1,327,180 tons, as compared with 1,133,680 tons in 1919, an increase of 193,500 tons.

In addition to the tonnage sold or used, there were imported during 1920, 586,406 tons of coke, while the exports totalled 39,536 tons. The Canadian consumption in 1920 was, therefore, 1,874,050 tons, an increase of 371,705 tons. The consumption of oven coke during recent years has been as follows: 2,178,318 tons in 1916, 2,192,373 tons in 1917, 2,386,722 tons in 1918, and 1,502,345 tons in 1919.

Coke Production, 1920

In short tons

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
							\$
Nova Scotia	721,374	428,298	13,552	12,232	429,618	32.37	4,349,986
Ontario	*1,080,024	726,728	25,852	6,334	746,246	56.23	8,163,613
British Columbia	236,571	151,618	349	651	151,316	11.40	2,002,075
Total	2,046,969	1,306,644	39,753	19,217	1,327,180	100.00	14,515,674

* All imported coal

Coke Production, 1919

In short tons

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
							\$
Nova Scotia	699,696	394,744	3,034	13,552	383,253	33.82	3,939,906
Ontario	1,025,706	667,081	9,281	26,856	649,506	57.29	4,886,662
Alberta	—	—	565	—	565	0.04	3,602
British Columbia	155,139	98,645	2,164	453	100,356	8.85	890,217
Total	1,880,541	1,160,470	15,044	40,861	1,133,680	100.00	9,720,387

All imported coal

Distribution of Coke Production, 1920

In short tons

	Nova Scotia	Ontario	British Columbia	Total
Shipped to Canada	4,406	55,727	40,161	100,294
Shipped to Export		35,524		35,524
Total sold	4,406	55,727	75,685	135,818
Used by smelter or blast furnace or otherwise	425,212	690,519	151,316	1,191,362
Total sold or used	429,618	746,246	151,316	1,327,180
Number of ovens in operation Dec. 31	120	240	300	660

Coke Production

(In short tons)

Year	Coal charged to ovens	Coke output	% Recovery per charge	Stock on hand		Coke sold or used	Value of coke sold or used	Average price
				Jan. 1	Dec. 31			
1910	1,373,793	901,269	65.6	19,216	17,770	902,715	\$3,462,872	\$3.84
1911	1,409,843	954,388	67.7	17,826	36,560	935,651	3,630,110	3.88
1912	2,053,807	1,406,028	68.5	39,073	33,872	1,411,229	5,164,331	3.66
1913	2,247,913	1,517,133	67.5	33,926	20,560	1,530,499	5,919,596	3.87
1914	1,541,547	1,015,253	65.9	20,634	12,027	1,023,860	3,658,514	3.55
1915	1,856,393	1,200,766	64.7	8,671	38,964	1,170,473	4,258,580	3.64
1916	2,134,911	1,448,782	67.9	38,934	17,975	1,469,741	6,049,412	4.12
1917	1,928,923	1,231,865	63.9	22,653	7,827	1,245,862	6,662,581	5.35
1918	1,983,242	1,258,284	63.4	7,826	15,366	1,250,744	11,035,195	8.82
1919	1,880,541	1,160,470	61.7	15,044	40,861	1,133,680	9,720,387	8.57
1920	2,016,969	1,306,644	63.8	39,755	19,217	1,327,180	14,515,674	10.94

Annual Production of Coke

Calendar Year	Short Tons	Value	Average per Ton	Calendar Year	Short Tons	Value	Average per Ton
1886	35,396	\$ 101,940	2.88	1903	561,318	\$1,734,404	\$3.09
1887	40,428	135,951	3.36	1904	554,083	2,032,048	3.66
1888	45,373	131,181	2.90	1905	700,488	2,436,211	3.48
1889	54,539	155,043	2.84	1906	782,055	2,863,503	3.66
1890	56,450	166,298	2.95	1907	842,003	3,583,468	4.26
1891	57,084	175,592	3.08	1908	858,257	3,449,361	4.02
1892	56,135	160,249	2.85	1909	862,011	3,484,393	4.04
1893	61,078	161,790	2.65	1910	902,715	3,462,872	3.84
1894	58,044	148,551	2.56	1911	935,651	3,630,410	3.88
1895	53,356	143,047	2.68	1912	1,411,229	5,164,331	3.66
1896	49,619	110,257	2.22	1913	1,530,499	5,919,596	3.87
1897	60,686	176,457	2.91	1914	1,023,860	3,658,514	3.55
1898	87,600	286,000	3.26	1915	1,170,473	4,258,580	3.64
1899	100,820	350,022	3.47	1916	1,469,741	6,049,412	4.12
1900	157,134	649,149	4.13	1917	1,245,862	6,662,581	5.35
1901	365,531	1,228,225	3.36	1918	1,250,744	11,035,195	8.82
1902	502,043	1,519,185	3.03	1919	1,133,680	9,720,387	8.57
				1920	1,327,180	14,515,674	10.94

Annual Production of Coke by Provinces

Calendar Year	Nova Scotia		Ontario		Alberta		British Columbia	
	Short tons	Value	Short tons	Value	Short tons	Value	Short tons	Value
1897	41,532	\$ 90,950		\$		\$	19,154	\$ 85,507
1898	48,400	111,000					39,200	175,000
1899	62,450	178,767					38,361	171,255
1900	61,767	223,395					95,367	425,745
1901	222,694	590,560					142,837	637,665
1902	363,330	809,930					138,713	619,255
1903	371,745	888,094					189,753	846,310
1904	275,927	808,022			20,084	78,936	257,172	1,148,090
1905	386,366	1,054,712			44,866	179,464	269,256	1,202,035
1906	476,364	1,540,976			69,486	268,042	236,205	1,054,485
1907	524,110	1,688,070			76,321	297,595	241,572	1,049,432
1908	505,920	1,658,151			75,645	309,019	276,683	1,482,191
1909	492,992	1,608,092			87,233	366,734	281,786	1,509,567
1910	508,058	1,655,775	24,685	148,110	121,578	486,312	248,394	1,172,675
1911	557,554	1,814,977	259,554	1,318,303	36,216	146,251	82,327	350,879
1912	625,918	1,840,129	379,854	1,709,343	103,684	424,027	299,773	1,190,832
1913	722,038	2,352,153	419,287	1,991,613	67,403	269,612	321,771	1,306,218
1914	343,289	1,118,614	386,314	1,352,099	29,059	116,236	265,198	1,071,565
1915	585,873	1,905,766	285,251	1,141,004	23,826	95,304	275,523	1,116,506
1916	654,433	2,617,732	472,507	2,008,155	41,950	167,800	300,851	1,255,725
1917	643,757	3,218,785	389,048	2,155,326	31,649	181,982	181,408	1,106,488
1918	580,433	5,966,609	425,087	3,300,127	32,654	213,884	212,570	1,554,575
1919	383,253	3,939,906	649,506	4,886,602	565	3,602	100,356	890,217
1920	429,618	4,349,986	746,246	8,163,613			151,316	2,002,075

Output of Coke Showing Beehive and By-Product Coke Separately

(In short tons)

Calendar Year	Beehive	%	By-product	%	Total
1909	471,045	54.0	400,682	46.00	871,727
1910	491,378	54.5	409,891	45.5	901,269
1911	242,311	25.4	712,077	74.6	954,388
1912	402,054	28.6	1,003,974	71.4	1,406,028
1913	498,501	32.9	1,018,632	67.1	1,517,133
1914	322,701	31.8	692,552	68.2	1,015,253
1915	391,380	32.6	809,386	67.4	1,200,766
1916	443,460	30.6	1,005,322	69.4	1,448,782
1917	317,399	25.8	914,466	74.2	1,231,865
1918	379,218	30.1	879,066	69.9	1,258,284
1919	124,241	10.7	1,036,229	89.3	1,160,470
1920	166,368	12.7	1,140,276	87.3	1,306,644

Annual Exports of Coke

Calendar Year	Short tons	Value	Calendar Year	Short tons	Value
1897	2,987	\$ 6,078	1909	74,067	\$ 329,051
1898	3,774	8,394	1910	57,971	250,715
1899	5,557	18,726	1911	9,852	39,823
1900	41,529	131,278	1912	54,744	252,763
1901	57,505	176,990	1913	68,235	308,410
1902	62,568	180,920	1914	67,838	306,117
1903	32,608	135,957	1915	35,869	160,053
1904	102,463	345,031	1916	48,539	221,334
1905	116,071	509,908	1917	23,595	137,318
1906	37,003	168,571	1918	29,612	223,629
1907	70,617	320,357	1919	14,709	129,703
1908	58,708	248,759	1920	39,536	390,161

Annual Imports of Oven Coke

Calendar Year	Short tons	Value	Calendar Year	Short tons	Value
		\$			\$
1907	624,649	2,206,084	1914	553,046	1,585,259
1908	426,971	1,135,125	1915	637,857	1,608,464
1909	661,425	1,508,627	1916	757,116	2,229,078
1910	737,088	1,908,725	1917	970,106	6,517,260
1911	751,389	1,843,248	1918	1,165,599	8,975,445
1912	628,174	1,702,856	1919	383,374	2,405,740
1913	723,906	2,180,830	1920	586,406	6,458,596

The Nova Scotia coke was made at Sydney and Sydney Mines.

In Ontario the production came from the Algoma Steel Corporation plant at Sault Ste. Marie, and from the new ovens operated by the Steel Company of Canada, at Hamilton, Ont.

In Alberta the coke oven plants at Lille, Passburg and Coleman were idle all year.

In British Columbia coke was made by the Crow's Nest Pass Coal Company at Michel, and by the Granby Consolidated Mining and Smelting Company at Anyox. The ovens at Fernie and Union Bay were not operated.

The coke production of the eastern provinces is used almost entirely in the iron and steel industry, while that of the western provinces is used chiefly by the copper and lead smelters, finding a market in the United States as well as in Canada.

Coke Oven By-Products

The coke-oven plants at Sydney, N.S., Sault Ste. Marie, and Hamilton, Ont., and Anyox, B.C., are by-product plants, and the recoveries of coke oven by-products in 1920 included 14,026,172 gallons of tar; 19,934 tons of sulphate of ammonia, together with important quantities of benzol, toluol, and solvent naphtha and naphthalene.

Annual Production of Coke Oven By-Products

Year	Tar	Sulphate of ammonia	Year	Tar	Sulphate of ammonia
	Gallons	Short tons		Gallons	Short tons
1901	2,662,612	1,614	1911	6,464,155	7,124
1902	4,094,135	2,393	1912	8,428,896	11,289
1903	3,281,249	3,207	1913	8,371,600	10,608
1904	1,649,197	1,773	1914	5,714,172	8,572
1905	3,407,784	2,500	1915	7,365,931	10,448
1906	3,725,723	2,384	1916	9,012,202	11,040
1907	4,424,615	1,738	1917	8,277,078	9,941
1908	4,450,166	3,342	1918	8,069,327	10,825
1909	4,016,824	3,416	1919	12,394,249	11,765
1910	3,963,591	3,491	1920	14,026,172	19,934

The imports of sulphate of ammonia in 1920 were reported as 312.3 tons, valued at \$31,531, as against imports in 1919 of 101.7 tons, valued at \$12,129.

Exports of sulphate of ammonia during the twelve months ending December 31, 1920, were 18,329 tons, valued at \$1,896,660, as compared with exports in 1919 of 18,488 tons, valued at \$1,821,880.

